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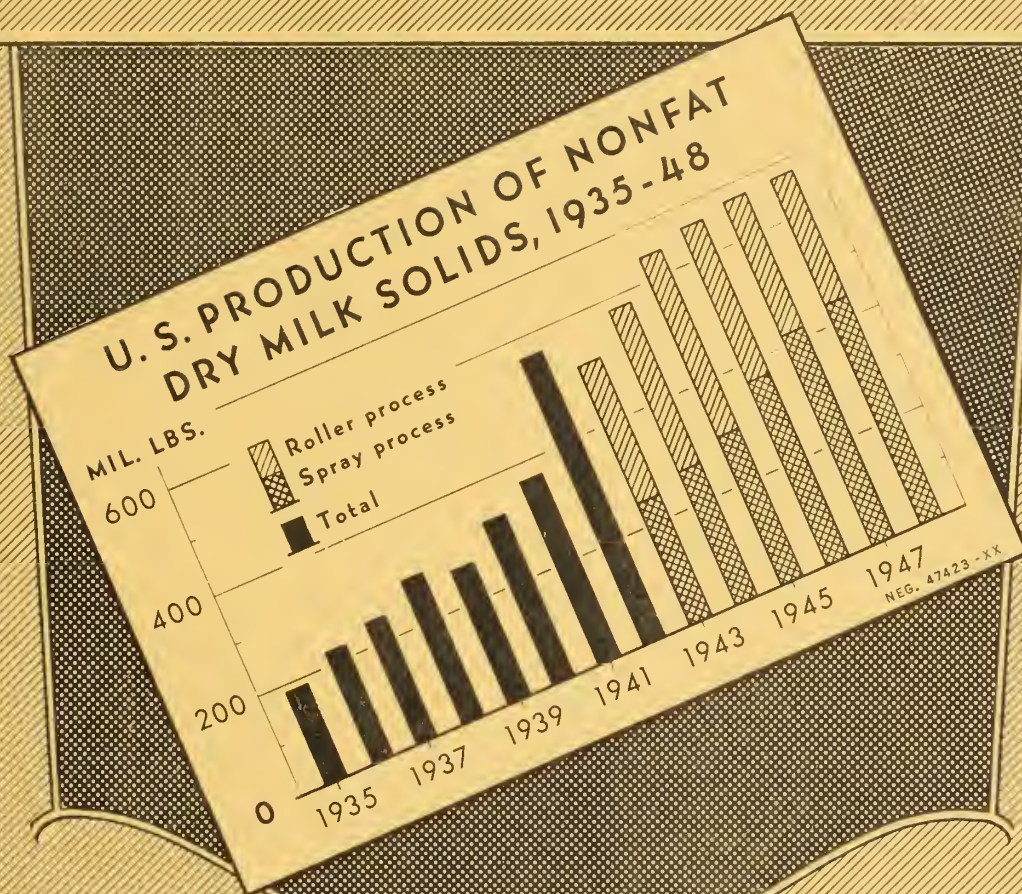
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UNITED STATES DEPARTMENT OF AGRICULTURE

BUREAU OF AGRICULTURAL ECONOMICS

DEC 28 1949

PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, 1948



The 1948 manufactures data given in this report are from reports made by dairy manufacturers direct to the United States Department of Agriculture or through the cooperating State agencies shown below:

<u>State</u>	<u>Agency</u>
Alabama:	State Department of Agriculture & Industries
California:	State Department of Agriculture, Bureau of Dairy Service
Colorado:	State Department of Agriculture
Idaho:	State Department of Agriculture, Bureau of Dairying
Illinois:	State Department of Agriculture
Indiana:	State Experiment Station, Creamery License Division
Iowa:	State Department of Agriculture, Dairy & Food Division
Kansas:	State Board of Agriculture, Dairy Division
Michigan:	State Department of Agriculture, Bureau of Dairying
Minnesota:	State Department of Agriculture, Dairy & Food Division
Mississippi:	State Department of Agriculture & Commerce
Montana:	State Department of Agriculture, Labor & Industry, Dairy Division
Nebraska:	State Department of Agriculture & Inspection, Bureau of Dairies, Foods & Drugs
Nevada:	State Extension Service
New York:	State Department of Agriculture & Markets, Division of Milk Control
North Carolina:	State Department of Agriculture, Dairy Division
North Dakota:	State Department of Agriculture & Labor, Dairy Division
Ohio:	State Department of Agriculture, Division of Foods and Dairies
Oklahoma:	State Board of Agriculture, Bureau of Dairying
Oregon:	State Department of Agriculture, Division of Foods and Dairies
Pennsylvania:	State Department of Internal Affairs
South Dakota:	State Department of Agriculture
Tennessee:	State Department of Agriculture, Division of Foods, Fertilizers, and Dairies
Utah:	State Board of Agriculture, Dairy and Foods Division
Virginia:	State Department of Agriculture, Dairy & Food Division
Washington:	State Department of Agriculture, Dairy & Livestock Division
West Virginia:	State Department of Agriculture
Wisconsin:	State Department of Agriculture, Dairy Division

PRODUCTION OF MANUFACTURED DAIRY PRODUCTS 1/

Production - 1948

Per capita production of manufactured whole milk products in terms of milk equivalents for 1948 was the lowest for the last 18 years, according to the Bureau of Agricultural Economics. The equivalent was down 6 percent from 1947, only fractionally higher than 1946, but aside from 1946 the lowest since 1939. The drop from the preceding year was occasioned by the slump in output of creamery butter, cheese, and ice cream. Evaporated milk was the only major product to show a gain. Few products achieved record high output in 1948, but those that did include nonfat dry milk solids, plain condensed skim milk, crude milk sugar, ice milk, and frozen custards.

Creamery Butter Production

The production of creamery butter for 1948 totaled 1,210,042,000 pounds, except for 1946, the lowest of record since 1922, and 9 percent below that of 1947. Minnesota continued to rank first with 222,657,000 pounds. Although Minnesota topped all States for the year, during August, Iowa exceeded Minnesota by a small margin. Iowa ranked second for the year with about 188 million pounds and Wisconsin, third, with almost 100 million pounds. The following seven States ranked in exactly the same order as in 1947: Nebraska, Missouri, Illinois, Ohio, Kansas, North Dakota, and Michigan. All geographic divisions registered declines from the 1947 production as follows: New England 55 percent, Middle Atlantic 15 percent, East North Central 10 percent, both West North Central and South Central 8 percent, South Atlantic 6 percent, Mountain 7 percent, and Pacific 16 percent.

Whole Milk Equivalents Lower

Whole milk equivalents of manufactured dairy products totaled 51,962,402,000 pounds for 1948, a decline of 6 percent, or 3.5 billion pounds, from 1947 and, except for 1946, was the lowest since 1939. A decline in the milk used in creamery butter accounted for approximately two-thirds of the decrease. Milk utilized in all cheese declined 0.9 billion pounds. Whole milk used in ice cream declined 0.7 billion pounds, while that utilized in evaporated and condensed milk gained 0.3 billion pounds. The per capita production of whole milk equivalent used in manufactured dairy products was 354.5 pounds for 1948, a decline of 8 percent from 1947 and the lowest per capita for 18 years.

Wisconsin continues to lead in the utilization of whole milk in all manufactured dairy products combined. With 9,982,833,000 pounds in 1948, the State's proportion of the Nation's total was 19 percent. Approximately two-thirds of Wisconsin's total milk production is utilized in the manufactured dairy products industry. Minnesota ranked second in 1948 with 5,872,124,000 pounds or about 74 percent of the State's total milk production used in manufacturing dairy

1/ The material appearing in this report was compiled under the supervision of W. D. Bormuth, in cooperation with Federal-State Statisticians and cooperating State agencies, and under the general direction of B. H. Bennett, Head, Division of Dairy Statistics, Bureau of Agricultural Economics. All of the computations in this publication were made under the supervision of Jessie M. Cooley.

products. Iowa, with 4,301,475,000 pounds or 72 percent of its total, was third.

TABLE 1 -- NET WHOLE MILK EQUIVALENT OF DAIRY PRODUCTS MANUFACTURED IN PLANTS, PERCENTAGE DISTRIBUTION BY MAJOR PRODUCTS, AND PER CAPITA ANNUAL WHOLE MILK EQUIVALENT, UNITED STATES, 1930-48

Year	Creamery butter	All whole milk and part skim cheese	Evaporated and condensed milk	Ice cream and other frozen products	Other milk products	Total of all whole milk products 1,000 lb.	Per capita annual Pounds
	Percent	Percent	Percent	Percent	Percent		
1930	72.9	11.5	8.7	6.5	0.4	44,117,231	358.5
1931	74.9	11.1	8.2	5.5	.3	44,814,081	361.3
1932	76.1	10.9	8.6	4.1	.3	44,754,949	358.5
1933	75.5	11.7	8.8	3.7	.3	46,899,352	373.5
1934	73.6	12.6	8.9	4.6	.3	46,235,522	365.9
1935	71.3	13.6	9.6	5.1	.4	45,838,275	360.2
1936	69.4	13.7	10.4	6.1	.4	47,071,054	367.6
1937	69.0	13.8	9.8	7.1	.3	47,031,818	365.1
1938	69.4	14.1	9.7	6.4	.4	51,447,110	396.3
1939	69.0	13.7	9.9	6.9	.5	51,661,423	394.7
1940	67.5	14.4	10.8	6.8	.5	54,549,576	413.3
1941	62.7	16.0	13.0	7.6	.7	59,660,301	447.9
1942	58.3	18.4	13.6	8.8	.9	60,398,622	448.5
1943	59.5	17.5	12.8	7.7	2.5	56,748,402	415.8
1944	54.6	18.5	14.9	8.2	3.8	54,748,971	396.5
1945	49.7	20.3	16.3	9.4	4.3	54,870,932	393.1
1946	45.2	21.2	14.0	15.8	3.8	51,718,254	366.2
1947	47.9	21.2	14.2	13.5	3.2	55,519,970	385.5
1948	46.6	21.0	15.8	13.1	3.5	51,962,402	354.5

Total Cheese

Production of total cheese for 1948 was 1,094,425,000 pounds, 7 percent less than 1947. The decline from 1947 was primarily due to a loss in American cheese, cream cheese, Neufchatel cheese, and Swiss cheese. The output of Italian cheese was sharply higher. Wisconsin's unchallenged leadership in the cheese industry continued with an output of 502,104,000 pounds, or 46 percent of the United States total for 1948. Illinois was in second position with 77,704,000 pounds; New York, third, with 73,405,000 pounds; followed by Missouri, 56,378,000 pounds; Minnesota, 54,061,000 pounds; Tennessee, 40,091,000 pounds; Indiana, 37,882,000 pounds; and Ohio, 36,998,000 pounds.

American Cheese

Production of 850,708,000 pounds of American cheese in 1948 was 9 percent below the record high of 1947 and the fourth highest annual output in the years for which data are available. This type of cheese is by far the most important of any of those made in this country. In 1948 it represented 78 percent of the total cheese produced, excluding cottage cheese. Wisconsin produces 45 percent of the

national total. Illinois ranks second and Missouri is third, having exceeded Minnesota, which was third in 1947. Missouri's production almost equaled that of Illinois. Other States in order of their rank were Minnesota, Indiana, Tennessee, New York, Oregon, Michigan, and Kentucky. In all of these States, production for 1948 was lower than in 1947, except in New York and Kentucky. However, the production in these last two States was only slightly higher than in 1948.

Several types of American cheese are made in this country. Cheddar is the major type, comprising 95 percent of the total. Production of Cheddar totaled 808,381,000 pounds for 1948, a decline of 8 percent from 1947. Other types of American cheese are Colby, Washed Curd, Jack, and Monterey; their combined production totaled 42,327,000 pounds, a decline of 20 percent from 1947.

Other Cheese

For the third successive year, the combined production of cheeses other than American whole milk declined. At 243,717,000 pounds for 1948, this production was 3 percent smaller than in 1947 and 20 percent smaller than the record high in 1946. Most of the varieties within this group showed declines of from 1 to 19 percent from 1947, but Brick, Italian, and miscellaneous varieties registered gains. Production of Swiss cheese in 1948 totaled 70,665,000 pounds, the second highest of record and down only 1 percent from the record high of 1947. Munster cheese totaled 8,308,000 pounds for 1948, down 15 percent from the preceding year. Output of brick cheese was 18,198,000 pounds, a gain of 8 percent from 1947. Limburger cheese, at 7,358,000 pounds, had the lowest production shown since 1943 and was 5 percent less than that of 1947. A 14-percent gain in Italian cheese from 1947 brought the 1948 total to 43,377,000 pounds, but this production was still 42 percent below the record output established in 1946. A production of 52,975,000 pounds of cream cheese was 15 percent under the preceding year and 26 percent below the record high of 1946. During the 5 years that definite standards have been in effect for Neufchatel cheese, its production has declined rapidly. The 1948 production of 3,841,000 pounds was down 13 percent from 1947 and was less than a fifth of the 1944 output. Production of Blue Mold cheese totaled 9,289,000 pounds, down 12 percent from the preceding year and the lowest output of record since 1944. Unclassified varieties of cheese totaled 25,719,000 pounds for 1948, a gain of 6 percent from 1947.

Despite the decrease in the percentage of the total cheese made by Wisconsin over the last quarter century, that State still maintains a dominant role in the Nation's cheese industry. Wisconsin leads in production of every variety of cheese produced domestically except cream cheese, for which New York leads and Wisconsin ranks second, and for Neufchatel which is made almost entirely in Pennsylvania. Wisconsin's share of the Nation's total by varieties is as follows: Swiss 61 percent, Munster 96 percent, brick 86 percent, Limburger 49 percent, Italian 45 percent, Cream 25 percent, Blue Mold 60 percent, and unclassified 28 percent.

Production of cottage cheese curd for 1948 was 255,606,000 pounds, the highest shown during the 3 years for which comparable data are available, and up 19 percent from 1947. The output of creamed cottage cheese was 248,221,000 pounds, also the highest for the 3 years and 8 percent above the 1947 production.

Evaporated Whole Milk Production Higher

Production of evaporated whole milk at 3,382,893,000 pounds for 1948, was up 5 percent from 1947 and the fourth highest annual output of record. Wisconsin continues to rank first in the evaporated milk industry, with a 1948 output of 875,123,000 pounds or 26 percent of the Nation's total. Other States, according to their 1948 production are: Ohio, 332,965,000 pounds; California 324,007,000 pounds; Missouri, 208,026,000 pounds; Illinois, 188,196,000 pounds; and Michigan, 186,267,000 pounds. Production in 1948 increased more rapidly in Missouri and California than in most of the major producing States. As a result, Missouri rose from sixth in 1947 to fourth in 1948, and California narrowed the margin between its output and that of Ohio until it approached closely Ohio's position as the second most important State in the production of evaporated milk.

Production of canned condensed whole milk for 1948 totaled 126,295,000 pounds, a decline of 23 percent from 1947. More than half of the Nation's total was made in Wisconsin and Michigan, with production of 35,041,000 pounds and 33,796,000 pounds, respectively.

Production of plain condensed whole milk for 1948, at 223,253,000 pounds, was the highest of record, and 28 percent higher than the previous record in 1947. The 1948 output of sweetened condensed whole milk of 45,558,000 pounds was the lowest since 1935. It was 45 percent below 1947.

Ice Cream Production Lower

For the second successive year, production of ice cream declined from the record high of 1946. In 1948, the 570,060,000 gallons produced was down 9 percent from 1947, and 20 percent from the 1946 peak. The output of ice cream has risen rapidly in the last few years. The 1948 production was more than double that of 10 years ago. Pennsylvania, with an output in 1948 of 65,329,000 gallons, continues to hold the lead as the principal ice cream producing State. Other important producing States are: New York, 56,274,000 gallons; California, 40,039,000 gallons; Illinois, 36,475,000 gallons; Michigan, 26,232,000 gallons; Texas, 24,157,000 gallons; Massachusetts, 19,694,000 gallons; Indiana, 18,871,000 gallons; Wisconsin, 16,639,000 gallons; and Missouri, 16,368,000 gallons. Ice cream produced for wholesale in 1948 totaled 521,548,000 gallons, or 91 percent of total production. The remaining 9 percent was for retail on the premises where produced.

Skim Milk Products Down

Total skim milk equivalent of all manufactured dairy products for 1948 was 13,083,466,000 pounds, a decline of 9 percent from 1947 and the lowest since 1944. Wisconsin leads in the manufacture of skim milk products, having used an equivalent of 2,828,492,000 pounds of fluid skim milk or 22 percent of the Nation's total of fluid skim milk in 1948. Minnesota ranked second with 2,227,648,000 pounds, or 17 percent of the national total. Other States in order of their importance are: New York, California, Ohio, Michigan, Indiana, and Missouri.

TABLE 2 -- SKIM MILK EQUIVALENT OF MANUFACTURED SKIM AND BUTTERMILK PRODUCTS, UNITED STATES, 1934-48

Year	Full skim Amer- can cheese	Cottage pot & bakers' cheese	Condensed and evapo- rated skim milk	Concen- trated skim milk (for ani- mal feed)	Nonfat dry milk solids	Dry casein	Cond. & dried butter- milk	Total
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.
1934	2	645	789	38	3,244	1,333	787	6,838
1935	4	685	899	54	3,273	1,344	760	7,019
1936	4	750	1,048	38	3,845	1,647	828	8,160
1937	3	827	1,129	30	4,094	2,409	849	9,341
1938	3	896	1,192	40	4,942	1,733	971	9,777
1939	4	1,042	1,132	35	4,492	1,459	997	9,161
1940	4	1,089	1,244	45	5,300	1,664	1,083	10,429
1941	7	1,172	1,519	58	5,242	1,690	1,217	10,905
1942	16	1,230	1,651	40	6,892	1,509	1,276	12,614
1943	37	1,337	1,901	45	5,873	656	1,173	11,022
1944	42	1,402	2,216	62	6,593	545	1,096	11,956
1945	35	1,780	2,922	37	7,261	440	1,026	13,501
1946	38	1,574	3,971	70	7,339	654	1,105	14,751
1947	34	1,346	2,887	56	7,701	1,279	1,067	14,370
1948	31	1,598	2,262	68	7,641	513	970	13,083

Nonfat Dry Milk Solids Establishes Record For Fifth Successive Year

Production of total nonfat dry milk solids in 1948 was 681,532,000 pounds, a gain of 1 percent from 1947 and a new high record for the fifth successive year. Spray-dried nonfat milk solids at 436,071,000 pounds were 4 percent higher than 1947. This is the sixth consecutive year for which records are available that a gain has been shown from the preceding year. The output of roller-dried nonfat milk solids in 1948 was 245,461,000 pounds, a decline of 5 percent from 1947 and the lowest production in the 6 years for which figures on spray and roller-dried nonfat milk solids have been published separately. The production of spray-dried solids has risen more rapidly than the roller-dried has declined, resulting in an ever increasing production of the two combined over the period. All of the major States that produce spray-dried nonfat milk solids showed gains in production from 1947 to 1948 except California, which was down 5 percent, Idaho, which was fractionally lower, and Oregon, which declined 45 percent. Wisconsin and Minnesota continue to lead in the output of both spray and roller-dried. Most of the major producing States of roller-dried nonfat milk solids had lower outputs in 1948 than in 1947.

Dry Buttermilk Down

With the exception of 1946, production of dry buttermilk for 1948 of 41,528,000 pounds was the lowest of record since 1927. It was 9 percent less than 1947 and 45 percent under the record high of 1941. Minnesota ranked first with an output of 19,643,000 pounds, and Iowa, second, with 5,980,000 pounds.

Dry Casein Down

Production of dry casein declined sharply from 1947 to 1948. The 1948 output of 14,372,000 pounds was down 60 percent from the preceding year and except for 1945 was the lowest of record during the last quarter century. California was the leading casein producing State in 1948, followed in order by New York, Wisconsin, Minnesota, and Washington.

Dry Whey Sharply Lower

Production of dry whey totaled 125,185,000 pounds in 1948, a 21-percent decline from 1947. Wisconsin, with 64,686,000 pounds, produced slightly more than half of the national total. Minnesota, with 15,108,000 pounds, ranked second.

Condensed Skim Milk (Bulk Goods)

Plain condensed skim milk (bulk goods) for 1948 was 493,893,000 pounds, the highest production of record and 22 percent above 1947. Wisconsin's production totaled 88,412,000 pounds or 18 percent of the national total and the largest production for any State. New York ranked second and California third. Output of sweetened condensed skim milk (bulk goods) at 241,432,000 pounds was the lowest since 1942, and was down 55 percent from 1947. The first five leading States in production of condensed skim milk (bulk goods) are Wisconsin 30,947,000 pounds, New York 29,094,000 pounds, Ohio 26,521,000 pounds, Indiana 26,013,000 pounds, and Pennsylvania 24,535,000 pounds.

Milk Sugar Production

Production of crude milk sugar at 24,415,000 pounds was 12 percent larger than 1947. Production of refined milk sugar, technical grade, was 3,317,000 pounds, a decline of 35 percent from 1947. The 1948 output of 9,407,000 pounds of refined milk sugar, U. S. P. grade, was down 18 percent from the 11,500,000 pounds produced in 1947.

TABLE 3-REVISIONS, MANUFACTURED DAIRY PRODUCTS, BY MONTHS, UNITED STATES, 1945 1/

Manufactured Products	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1945
Condensed milk (sweetened):														
Bulk goods (unskimed) 2/.....	255	23,030	25,901	36,889	55,038	71,822	76,303	61,634	47,185	34,496	28,421	25,236	29,233	539,188
Bulk goods (unskimed) 2/.....	101	2,934	3,617	5,027	7,934	11,707	10,914	7,875	6,685	5,607	5,446	4,712	4,558	77,016
Frozen Products:														
Ice cream (wholesale) 3/.....	3,699	18,229	18,608	24,334	29,533	35,354	44,335	47,919	44,546	51,248	43,605	37,275	29,213	1,000 gal.
Ice cream (retail) 3/.....	11,388	2,231	2,892	3,116	3,884	4,607	6,018	6,619	5,899	5,633	4,636	3,891	3,242	424,289
Total ice cream 3/.....	14,186	20,460	20,900	27,450	33,417	39,961	50,353	54,538	50,445	56,881	48,241	41,166	32,455	52,068
Shorbet (milk) 4/.....	4,306	2,628	3,423	6,828	7,929	7,956	9,338	10,946	11,012	12,648	12,233	836	500	476,357
Ice milk 5/.....	1,079	550	939	1,047	1,047	1,264	1,375	1,478	1,539	1,284	1,075	829	605	65,177
Frozen custards 6/.....	413	96	118	180	215	271	331	345	384	200	121	89	60	12,527
Prosted or frozen malted milk 1/	1,287	181	204	299	330	404	508	502	555	388	296	220	158	2,410

1/ For revised annual totals, by States, see "Production of Manufactured Dairy Products, 1946" table 6.

Revisions were shown in the following States: 1/ California, 2/ Illinois, 3/ Massachusetts, Connecticut, New Jersey, Missouri, South Carolina, Florida, Kentucky, Alabama, Arkansas, Louisiana, Texas, and Arizona. 4/ Maine, Massachusetts, Connecticut, New Jersey, Missouri, South Dakota, District of Columbia, Maryland, Georgia, Florida, Kentucky, Alabama, Arkansas, Louisiana, Texas, and Arizona. 5/ Massachusetts, Connecticut, New Jersey, Missouri, South Dakota, Delaware, District of Columbia, Maryland, South Carolina, Georgia, Florida, Kentucky, Alabama, Arkansas, Louisiana, Texas, and Arizona.

TABLE 4-REVISIONS, MANUFACTURED DAIRY PRODUCTS, BY MONTHS, UNITED STATES, 1946 1/

Manufactured Products	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1946
Creamery butter 2/.....	3,590	69,083	66,333	77,187	93,382	115,988	120,932	130,208	118,041	107,282	100,742	82,635	89,526	1,171,339
American Type Cheese:														
Cheddar 3/.....	1,741	41,047	41,405	50,563	61,450	75,873	86,444	76,021	74,166	65,069	57,553	47,839	47,505	724,935
Total 3/.....	1,835	43,293	43,876	53,410	65,750	81,353	97,657	88,312	80,999	69,855	61,882	51,683	51,194	801,265
Swiss cheese (including block) 4/.....	236	2,304	2,330	3,596	4,768	6,783	6,933	6,307	5,810	5,282	4,764	3,570	3,258	55,695
Cream cheese 5/.....	54	5,554	5,647	6,499	6,725	6,728	6,590	6,267	5,181	5,481	6,639	5,516	4,700	71,577
Total cheese 6/.....	2,455	62,882	63,418	80,071	98,095	127,243	131,345	117,793	105,957	92,845	85,379	71,682	69,637	1,106,347
Cottage cheese (curd) 7/.....	1,394	17,814	18,416	23,310	24,121	27,072	27,389	22,898	19,077	18,153	18,097	15,204	14,752	246,303
Cottage cheese (cream) 8/.....	969	16,409	16,162	19,994	20,548	20,711	20,222	18,888	16,367	16,286	16,656	13,828	13,822	209,893
Condensed milk (sweetened):														
Bulk goods (unskimed) 9/.....	326	33,183	37,310	54,363	78,698	116,727	124,711	106,403	91,772	65,598	49,402	27,285	30,604	818,076
Bulk goods (unskimed) 9/.....	85	5,275	5,097	6,184	7,199	9,843	10,180	7,128	5,446	4,794	3,652	2,365	2,587	69,750
Plain condensed milk (unskimed):														
Bulk goods (skimed) 10/.....	336	40,125	39,993	45,352	44,998	43,149	44,748	44,969	39,166	35,270	36,441	37,985	33,023	487,219
Bulk goods (unskimed) 11/.....	114	6,425	6,317	7,203	10,310	10,097	9,632	9,574	7,667	7,885	9,325	7,603	6,433	98,471
Dry buttermilk 12/.....	266	2,892	2,804	3,112	3,323	4,008	3,988	3,951	3,465	3,030	2,730	2,489	2,835	38,627
Frozen Products:														
Ice cream (retail) 13/.....	11,452	100 gal.	100 gal.	100 gal.	100 gal.	100 gal.	100 gal.	100 gal.	100 gal.	100 gal.	100 gal.	100 gal.	100 gal.	100 gal.
Total ice cream 13/.....	14,257	3,293	3,297	4,448	5,283	6,127	7,204	8,251	7,083	5,603	4,615	3,637	3,212	62,061

1/ For revised annual totals, by States, see "Production of Manufactured Dairy Products, 1947" table 6.

Revisions were shown in the following States: 1/ Texas and Washington, 2/ Missouri, 3/ Wyoming, 4/ Ohio, 5/ Ohio, Missouri, and Wyoming, 6/ Ohio and Virginia, 7/ Virginia, 8/ Pennsylvania, Iowa, and Missouri, 9/ Iowa, 10/ Iowa, 11/ Pennsylvania and Iowa, 12/ Pennsylvania, 13/ Missouri, 14/ Massachusetts.

TABLE 5—REVISIONS, MANUFACTURED DAIRY PRODUCTS, BY MONTHS, UNITED STATES, 1947 1/

Manufactured Products	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1947
		1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.
Creamery butter 2/.....	3,415	96,237	94,568	111,724	117,203	142,318	156,345	148,007	116,553	100,238	91,717	69,622	76,562	1,329,094
American Type Cheese:														
Cheddar 2/.....	1,808	52,103	56,546	71,617	85,299	102,539	115,773	104,985	80,422	65,652	58,216	41,026	39,485	879,663
Total Am. cheese (whole milk) 2/.....	1,893	55,217	59,790	76,399	90,610	115,463	123,026	111,021	84,648	69,685	61,929	43,315	41,615	932,718
Cream cheese 2/.....	56	5,438	5,098	5,239	5,057	5,364	6,161	5,664	5,065	4,291	4,974	4,374	4,944	62,074
Total cheese 2/.....	2,450	74,691	78,316	100,230	114,131	140,568	146,142	133,268	103,994	87,746	80,897	60,898	60,445	1,162,946
Cottage cheese (curd) 6/.....	1,491	16,655	16,773	19,903	19,373	20,954	20,457	19,445	18,566	15,994	16,769	15,022	15,391	215,302
Cottage cheese (cream) 1/.....	1,117	17,228	18,452	21,098	20,408	21,412	20,617	20,528	19,614	18,471	18,610	16,714	17,245	230,597
Condensed milk (sweetened):														
Bulk goods (unskimmed) 8/.....	346	34,273	36,999	56,727	83,958	102,895	98,075	61,088	21,775	15,234	11,706	8,776	10,347	541,813
Plain condensed milk (unskimmed) 8/.....	114	3,493	3,956	5,201	6,167	11,731	13,276	9,811	8,798	6,270	5,162	4,897	3,791	82,553
Bulk goods (skimmed) 8/.....	360	29,807	28,890	33,126	29,518	29,604	33,833	39,951	44,824	40,659	34,472	31,101	30,409	403,194
Dry casein 2/.....	131	11,931	10,795	12,861	12,798	15,964	16,955	19,043	21,833	19,257	13,953	9,497	10,008	174,525
Milk sugar (crude) 10/.....	86	3,003	2,653	3,281	3,365	4,161	4,918	3,864	3,730	2,911	2,027	893	805	35,831
Milk sugar (crude) 10/.....	15	1,755	1,703	2,035	2,434	2,959	2,775	2,343	1,478	1,251	1,171	1,754	1,143	21,801
Frozen Products:														
Ice cream (wholesale) 11/.....	3,766	34,458	34,002	40,694	48,690	57,348	61,893	69,354	70,968	56,660	44,164	29,633	28,575	576,839
Total ice cream 11/.....	14,161	37,766	36,812	44,220	52,793	62,506	67,698	76,091	77,702	61,631	44,055	32,421	31,208	628,903
Shorbet (milk) 12/.....	2,795	395	427	595	811	1,088	1,214	1,468	1,523	1,230	808	476	422	10,447
Ice milk 13/.....	1,407	740	642	1,061	1,343	1,589	1,736	1,979	1,935	1,795	1,347	787	685	15,829
Frozen custards 13/.....	1,429	137	135	212	309	456	575	704	653	422	235	152	140	4,130

1/ For revised annual totals, by State, see table in this publication. Some State totals may not be shown if there were less than 3 plants reporting. Revisions were shown in the following States: 2/ Texas, 3/ Missouri, 4/ Ohio and Tennessee, 5/ Ohio, Missouri, and Tennessee, 6/ Ohio, 7/ Tennessee, 8/ Texas, 9/ Ohio, Wisconsin, Minnesota, and Iowa, 10/ Wisconsin, 11/ New Jersey, Kentucky, Louisiana, and Texas, 12/ New Jersey, 13/ Missouri.

TABLE 6-PRODUCTION OF MANUFACTURED DAIRY PRODUCTS IN THE UNITED STATES, 1939-1948

Product	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948
Creamery butter ^{1/}	1,781,737	1,836,866	1,872,183	1,764,054	1,673,788	1,488,502	1,363,717	1,171,339	1,329,094*	1,210,042
Renovated or process butter	2,616	2,672	3,195	3,768	2,940	6,406	2,345	1,441	1,219	1,090
American cheese^{2/}										
Whole milk	537,298	602,790	753,122	916,850	765,089	804,787	875,084	801,264	932,718*	850,708
Part skim	4,247	3,890	4,139	3,759	4,670	2,204	1,098	2,696	4,906	3,987
Swiss cheese (including block)	42,631	44,659	55,962	52,961	45,666	45,571	50,065	55,695	71,612	70,865
Emmentaler cheese	34,969	34,328	36,068	28,798	27,978	17,435	18,756	17,678	26,533	26,506
Limburger cheese	8,971	8,198	8,088	8,441	6,653	7,510	6,777	9,548	7,753	7,358
Cream & Neufchâtel cheeses	2/47,961	2/51,183	2/50,012	2/47,554	70,451	60,440	66,312	78,803*	66,503*	56,816
All Italian varieties of cheese	20,509	25,002	34,363	34,916	43,003	41,762	64,628	75,388	38,100	43,377
Blue mold cheese	3/	3/	3/	3/	8,036	6,835	9,289	12,451	10,580	9,289
All other varieties of cheese	11,941	11,440	18,409	19,435	21,788	20,659	25,624	52,824	24,241	25,719
Total cheese ^{4/}	708,527	785,490	956,161	1,112,314	993,294	1,017,247	1,116,772	1,106,347*	1,182,946*	1,094,425
Full skim Am. type cheese	236	247	416	1,001	2,337	2,628	2,172	2,367	2,153	1,956
Cottage, pot & bakers' cheese	166,720	174,257	187,595	196,799	213,910	224,374	284,774	246,303*	215,302*	255,606
Cottage cheese (curd) ^{5/}	-	-	-	-	-	-	-	209,893	230,597*	248,221
Cottage cheese (cream) ^{6/}	-	-	-	-	-	-	-	-	-	-
Condensed milk (sweetened):										
Case goods (ekimmed)	1,454	1,872	2,334	4,839	697	102	216	302	243	362
(unskimmed)	34,732	61,955	114,772	62,453	117,247	139,145	143,306	113,906	164,733	126,295
Bulk goods (ekimmed)	152,886	166,017	173,658	225,840	306,899	374,840	519,188	818,076	541,813*	241,432
(unskimmed)	54,897	76,136	79,239	75,362	66,588	63,586	77,016	69,750	82,553*	45,556
Plain condensed milk (unsweetened):										
Bulk goods (ekimmed)	223,001	246,310	326,535	318,379	325,512	363,771	454,443	487,219	403,194*	493,893
(unskimmed)	107,026	128,017	113,965	125,880	102,452	119,403	128,875	98,471	174,585*	223,253
Evaporated milk (unsweetened):										
Case goods (unskimmed)	2,170,501	2,464,668	3,246,547	3,518,504	3,057,274	3,428,089	3,776,383	3,050,643	3,208,027	3,382,893
Condensed or evaporated buttermilk.	104,288	111,842	128,183	169,999	167,338	157,503	160,441	226,708	189,135	170,954
Dry whole milk	24,472	29,409	45,627	62,167	137,766	177,754	217,276	188,406	164,888	170,087
Nonfat dry milk solids for human food	267,860	321,843	366,455	565,414	509,620	582,912	642,546	653,465	677,941	681,532
Dry skim milk for animal feed	140,520	159,962	110,042	61,148	24,279	16,407	17,508	13,704	22,149	13,145
Dry buttermilk	62,187	67,931	75,614	69,637	60,995	56,683	49,378	38,627	45,437	41,528
Dry cream	49	54	43	54	216	193	203	567	320	312
Dry casein	40,878	46,616	47,346	42,268	18,386	15,284	12,333	18,319	35,851*	14,372
Malted milk powder	19,744	20,021	23,242	34,679	49,435	40,549	42,751	45,029	37,354	31,361
Total ice cream	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.
	304,522	318,088	390,175	464,146	441,626	444,198	476,357	713,594	628,903*	570,060

* Revised.

^{1/} Includes whey butter.^{2/} Cream cheese only.^{3/} Included in "All Other Varieties of Cheese" prior to 1943.^{4/} Excludes full skim cheddar and cottage cheese.^{5/} Data not gathered on comparable basis with previous years.^{6/} See cottage cheese curd and creamed cottage cheese.

Comparable data for years prior to 1946 not available. Cottage cheese curd includes cottage, pot, and bakers' cheese with a butterfat content of less than 4 percent made by reporting plants. Creamed cottage cheese includes cheese with a butterfat content of 4 to 19 percent. Cottage cheese curd and creamed cottage cheese should not be added together to get a total cottage cheese figure, for while some of the cottage cheese curd is sold direct for consumption without further processing, a considerable part is creamed within the plant or shipped to another plant for creaming prior to sale.

TABLE 7.—PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY MONTHS, UNITED STATES, 1946

Manufactured Product	Total plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1946
Greasery butter,	3,224	80,055	77,895	90,154	100,810	133,101	134,372	125,144	115,878	95,581	91,858	80,306	84,888	1,210,042
Nonfat or process butter,	3	134	58	76	95	98	45	74	50	90	42	132	156	1,090
American Type Cheeses:														
Cheddar,	1,670	42,423	44,511	55,203	68,107	97,888	100,380	90,177	85,872	66,001	59,173	46,414	49,632	808,381
Other Am. varieties (whole milk), ^{1/}	1,169	2,391	2,311	2,788	3,714	5,660	5,322	4,955	3,840	3,076	2,741	2,419	2,510	42,327
Total Am. cheeses (whole milk), ^{2/}	1,749	46,814	46,822	57,991	71,821	103,548	105,702	95,132	89,712	71,077	61,914	48,833	52,142	850,708
Part skim,	28	126	158	248	413	585	566	443	333	333	320	252	104	1,987
Swiss cheese (including block),	270	3,784	3,898	5,344	6,424	8,719	8,996	7,573	6,828	5,339	5,318	4,015	3,007	70,665
Monter cheese,	68	3,761	3,685	728	753	794	792	743	440	469	673	743	916	8,308
Brick cheese,	174	1,628	1,689	1,461	1,383	1,715	1,781	1,370	1,201	1,163	1,421	1,600	1,786	18,198
Limburger cheese,	55	504	565	737	681	807	707	595	541	550	630	479	542	7,358
All Italian varieties of cheese,	147	3,401	3,464	4,961	3,989	4,175	3,594	2,934	2,811	2,804	3,334	3,531	4,386	43,377
Green cheese 3/ ,	46	5,148	4,481	5,004	4,708	5,020	4,493	3,016	3,656	3,448	4,618	4,477	4,506	52,975
Beaufort cheese 4/	13	363	234	340	282	313	342	293	312	321	347	322	372	3,841
Blue mold cheese,	24	709	673	755	920	1,127	1,095	764	585	591	789	627	714	9,289
All other varieties of cheese,	102	2,894	2,383	2,507	2,428	2,536	2,192	1,510	1,595	1,914	1,899	2,193	2,318	25,719
Total cheese 5/ ,	2,293	63,592	65,042	80,076	93,744	129,359	131,459	114,219	108,047	86,999	81,203	67,072	71,613	1,094,425
Full skim Am. type cheese,	22	48	121	122	203	256	368	370	196	116	68	38	28	1,956
Cottage cheese (curd),	1,582	17,605	19,369	22,536	22,352	24,720	25,230	23,609	22,090	20,761	20,130	18,766	18,438	255,606
Cottage cheese (cream),	1,238	18,661	19,787	22,555	21,590	22,026	21,890	22,425	21,045	20,007	20,182	19,271	18,762	248,221
Condensed milk (sweetened):														
Cane goods (skimmed),	2	9,615	9,501	10,857	13,804	12,916	14,8	84	11,725	9,680	8,329	7,847	9,932	126,895
Bulk goods (skimmed),	264	10,987	10,105	13,490	22,614	41,355	42,717	31,449	23,817	15,131	10,534	8,695	10,534	241,432
Bulk goods (unskimmed),	108	2,844	2,895	3,635	3,944	7,647	4,799	4,983	4,844	3,537	2,787	2,430	1,433	40,558
Plain condensed milk (unsweetened):														
Bulk goods (skimmed),	384	31,153	35,646	39,822	38,917	44,876	49,993	52,235	48,218	45,226	36,375	35,976	35,436	493,893
Bulk goods (unskimmed),	134	13,018	14,607	19,691	22,686	24,602	26,714	26,978	24,680	19,668	13,340	8,353	8,896	223,253
Evaporated milk (unsweetened):														
Cane goods (skimmed),	4	962	1,199	2,067	2,383	937	1,905	1,748	1,219	1,959	753	1,518	1,841	18,491
Cane goods (unskimmed),	137	176,981	193,800	271,340	332,363	447,501	440,864	380,308	349,280	273,973	221,710	151,414	143,359	3,382,893
Concentrated skim milk for animal feed,														
Condensed or evaporated buttermilk, ^{6/}	17	2,402	1,177	1,645	1,805	3,034	2,814	1,936	1,665	882	1,681	1,578	2,014	22,633
Dry whole milk,	104	13,826	12,432	14,577	13,360	17,836	17,766	18,508	17,937	15,006	12,091	9,161	9,054	170,954
Dry whole milk,	87	12,071	12,174	12,433	14,897	20,348	19,827	19,345	17,175	12,929	11,773	7,962	9,153	170,087
Nonfat dry milk solids:														
Spray process,	191	25,450	26,579	34,951	41,869	54,907	55,006	43,334	34,386	27,052	27,589	27,847	37,101	436,071
Roller process,	288	12,603	13,639	20,712	27,327	40,182	39,884	26,168	18,591	12,640	11,130	9,326	11,079	248,461
Total for human food,	435	38,053	40,118	55,663	69,196	95,089	94,890	69,502	52,977	39,692	38,719	37,173	50,180	684,532
Dry skim milk for animal feed,														
Part-skim dry milk solids,	213	687	710	962	1,158	2,040	1,982	1,408	1,193	860	822	581	742	13,145
Dry ice cream mix 6/	4	4	6	2	60	60	4	4	4	4	4	9	9	121
Dry buttermilk,	9	907	816	1,276	1,451	3,303	3,648	3,076	2,126	1,065	1,107	206	138	19,119
Dry cream,	247	3,143	2,917	3,590	3,826	4,759	4,770	4,025	3,370	2,691	2,714	2,634	3,089	41,528
Dry whey,	8	18	13	14	14	43	92	32	12	19	14	21	20	312
Dry casein,	59	6,600	7,155	11,373	13,100	12,689	12,345	13,050	12,349	9,058	8,062	8,625	10,839	125,185
Malted milk powder,	59	898	861	1,221	1,439	2,443	2,311	2,282	1,875	2,195	2,371	2,469	2,346	14,372
Malted milk (crude),	10	2,748	2,312	3,131	3,100	3,323	3,208	2,882	2,675	2,775	2,371	2,469	2,346	31,361
Milk sugar (refined, technical grade), ^{7/}	15	1,894	1,326	1,848	2,279	2,243	2,159	2,217	2,134	1,868	2,284	2,234	2,530	24,415
Milk sugar (refined, U.S.P. grade), ^{8/}	7	168	191	316	177	486	519	342	300	373	171	160	114	3,317
Milk sugar (refined, U.S.P. grade), ^{9/}	7	840	943	996	928	943	926	765	780	608	598	606	474	9,407
Frozen Products: 8/														
Ice cream (wholesale),	3,783	27,763	28,140	39,798	45,756	50,459	60,271	65,888	59,915	50,529	33,308	31,397	28,321	521,548
Ice cream (retail),	11,431	2,344	2,399	3,244	4,084	4,700	5,824	6,526	6,070	4,705	4,705	2,834	2,579	48,512
Total ice cream,	14,214	30,107	30,539	43,042	49,840	55,159	66,095	72,414	65,985	55,234	38,013	34,231	30,900	570,060
Shrimp (milk),	3,149	415	435	701	913	1,159	1,064	1,810	1,711	1,440	802	681	548	12,211
Ice milk,	1,818	911	860	1,180	1,522	1,804	2,261	2,513	2,401	2,225	1,560	1,294	954	19,585
Frozen custards,	1,652	222	248	367	422	465	590	831	724	619	443	326	356	5,613
Frozen or frozen malted milk,	1,373	139	153	220	266	322	398	455	442	344	242	200	174	3,355

1/ Includes Colby, Washed Curd, High and Low Moisture Jack, Monterey, and Granular.

2/ Comparable with data published prior to 1944 under designation of American Cheddar cheese.

3/ Not less than 33 percent butterfat.

4/ Butterfat content ranging from 20 to 32 percent, inclusive.

5/ Excluding full-cream American and Cottage cheese.

6/ The production shown for frozen products includes that made by all types of plants for both wholesale and retail.

7/ Number of plants not available.

8/ Includes concentrated ice cream mix converted to dry ice cream mix equivalent.

9/ Excludes Colby, Washed Curd, High and Low Moisture Jack, Monterey, and Granular.

TABLE 8-PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY GEOGRAPHIC DIVISIONS, UNITED STATES, 1945-47

Manufactured Products	New England			Middle Atlantic			East North Central			West North Central			South Atlantic			South Central			Mountain			Pacific			U. S. Total			Percent Change
	1948	1947	1000 lb.	1948	1947	1000 lb.	1948	1947	1000 lb.	1948	1947	1000 lb.	1948	1947	1000 lb.	1948	1947	1000 lb.	1948	1947	1000 lb.	1948	1947	1000 lb.	1948	1947	1000 lb.	
Creamery butter.....	1,100	2,425		24,448	28,692		284,483	314,486		673,603	731,488		14,290	15,155		90,474	96,477*		57,939	62,073		63,705	75,898		1,210,042	1,329,094*	- 9	
American Type Cheese:																												
Cheddar.....	756	525		22,727	24,455		495,145	535,616		126,612	141,657*		2,126	1,698		101,016	104,780		28,765	33,612		31,234	37,050		808,381	879,665*	- 8	
Other Am. varieties (whole milk) 1/.....	671	1,013		8,711	7,008		27,964	37,020		579	1,074		1,111	1,111		3,317	3,317		1,281	1,173		3,121	42,327		142,327	131,038*	- 20	
Total Am. cheese (whole milk) 2/.....	1,427	1,013		31,438	31,465		523,109	572,696		127,191	142,531*		2,126	1,609		101,016	108,287		30,046	34,785		34,355	39,724		850,708	927,776*	- 9	
Part skim. cheese (whole milk) 3/.....	-	-		83	65		2,639	2,605		355	445		-	-		112	669		294	124		504	598		7,065	4,906	- 19	
Swiss cheese (including block).....	-	-		708	714		60,301	62,154		457	20		14	-		-	-		9,089	8,681		96	29		70,665	71,632	- 1	
Muenster cheese.....	-	-		-	-		8,308	9,731		-	-		-	-		-	-		-	-		-	-		4,304	9,731	- 15	
Brick cheese.....	-	-		17	23		18,052	16,496		187	269		-	-		-	-		-	-		-	-		18,398	16,602	- 8	
Limburger cheese.....	-	-		1,342	1,440		5,792	6,044		269	542		-	-		-	-		37	-		13	29		16,402	17,753	+ 8	
All Italian varieties of cheese.....	1,230	2,010		17,625	15,438		22,990	18,705		379	542		-	-		5,370	8,587*		512	724		641	681		43,177	38,100	+ 14	
Cream cheese 4/.....	1,519	1,496		22,930	24,241		18,942	19,702*		129	2,395		-	-		-	-		-	-		4,084	5,649		52,975	62,074*	- 15	
Neufchatel cheese 5/.....	10	369		3,197	4,022		-	-		20	20		-	-		-	-		-	-		14	18		3,841	4,429	- 13	
Blue mold cheese.....	-	-		7	5		6,804	8,710		1,671	1,446		-	-		350	2		-	-		806	417		9,289	10,580	- 12	
All other varieties of cheese.....	1,886	970		7,513	5,766		12,015	13,379		45	249		-	-		-	-		709	567		3,201	3,304		25,719	24,241	+ 6	
Total cheese 6/.....	6,072	5,878		85,460	83,177		678,952	730,022*		130,550	148,547*		2,140	1,828		106,849	117,756*		40,688	44,869		43,714	50,849		1,094,425	1,182,946*	- 7	
Full skin Am. type cheese.....	270	123		133	535		774	760		541	548		-	-		1	10		237	167		-	10		1,956	2,153	- 9	
Cottage cheese (curd).....	8,734	3,965		58,982	37,999		76,280	70,729*		27,050	25,743*		7,648	6,717		10,921	8,037		7,193	7,031		56,798	55,081		255,606	235,002*	+ 19	
Cottage cheese (cream).....	6,661	5,687		28,920	24,229		77,453	76,336		25,702	23,769		8,115	6,702		13,021	8,203*		6,093	6,084		20,256	73,587		246,221	230,597*	+ 8	
Condensed milk (sweetened):																												
Case goods (skimmed).....	-	-		16,806	38,432		72,179	85,011		-	1,086		-	-		-	-		-	-		-	-		362	243	+ 49	
Case goods (unskimmed).....	7,461	20,458		54,943	112,725		123,309	287,658		26,117	62,971*		11,446	22,663		5,817	15,177*		901	1,536		24,669	27,511		126,295	164,733	- 23	
Bulk goods (skimmed).....	1,320	1,783		6,178	10,639		18,196	45,389		14,428	13,456		821	841		2,645	5,166*		-	-		1,970	5,279		45,558	82,553*	- 45	
Plate condensed milk (unsweetened):																												
Bulk goods (skimmed).....	9,486	6,217		95,967	71,034		179,298	159,358		84,314	65,385		24,180	13,766		40,904	31,621*		3,492	3,801		56,652	52,012		493,893	403,194*	+ 22	
Bulk goods (unskimmed).....	9,591	5,050		58,868	42,869		105,484	85,821		20,274	13,665		16,712	14,942		1,225	1,134*		638	522		10,441	7,502		223,253	174,525*	+ 28	
Evaporated milk (unsweetened):																												
Case goods (skimmed).....	-	-		-	-		17,287	16,768		60	76		-	-		428,108	399,123		-	-		1,144	-		18,491	16,844	+ 10	
Case goods (unskimmed).....	-	-		123,495	81,233		1,079,658	1,683,280		348,519	338,407		166,560	151,534		-	-		172,994	164,592		433,559	389,758		3,362,893	3,208,027	+ 5	
Concentrated skim milk for animal feed:																												
Condensed or evaporated buttermilk.....	-	86		3,946	4,467		11,479	9,998		6,640	9,998		-	-		-	-		-	-		-	-		22,633	18,642	+ 21	
Dry whole milk.....	1,001	3,591		15,918	13,511		101,181	97,400		35,285	23,437		243	267		13,165	14,792		1,408	579		237	245		170,954	189,135	- 10	
Nonfat dry milk solids:																												
Spray process.....	5,963	4,495		32,669	32,278		169,556	151,423		144,238	142,063		2,962	1,055		3,425	4,315		35,788	35,565		41,470	47,490		436,071	418,704	+ 4	
Roller process.....	1,501	3,177		25,107	30,342		130,429	131,561		99,424	73,364		4,012	2,946		4,707	3,594		744	578		9,517	13,675		246,461	259,237	+ 5	
Total for human food.....	7,464	7,672		57,776	62,620		299,985	282,984		213,662	215,427		6,994	4,001		8,132	7,909		36,532	36,163		50,987	61,165		681,532	677,941	- 1	
Dry skim milk for animal feed:																												
Dry buttermilk.....	515	557		1,163	2,386		4,581	4,683		3,256	4,904		596	1,540		990	1,947		423	747		1,621	5,365		13,145	22,149	- 41	
Dry cream.....	3	37		146	99		7,241	8,224		31,247	34,012		148	165		1,603	1,413		587	550		553	937		41,528	45,437	- 9	
Dry whey.....	-	545		10,949	16,715		71,446	80,483		18,403	27,452		-	-		3,076	3,546		6,000	6,771		25,211	22,071		312	320	+ 2	
Dry casein.....	435	907		3,126	5,387		2,133	11,021*		2,059	8,244*		-	-		-	-		-	-		6,045	6,756		129,185	151,583	- 21	
Milk sugar (crude).....	273	920		4,046	6,032		15,317	10,000		2,044	1,649		-	-		-	-		379	1,159		2,735	3,000		14,372	15,631*	- 60	
Frozen Products: 7/																												
Ice cream (whole).....	34,478	38,986		120,907	135,268*		118,072	128,046		56,882	63,934		63,290	66,077		66,077	69,936*		14,922	15,793		46,924	56,199		521,548	576,839*	- 10	
Ice cream (retail).....	2,767	3,221		11,286	11,618		14,715	14,716		4,510	5,401		2,431	2,758		2,856	3,359		2,319	2,820		6,938	8,087		48,512	52,084	- 7	
Total ice cream.....	37,245	42,207		132,193	146,904		132,847	143,362		61,392	69,335		65,721	70,835		68,939	73,295*		17,241	18,613		53,862	64,286		570,060	628,903*	- 9	
Sherbet (milk):																												
Ice milk.....	466	454		1,692	1,332*		2,490	2,663		978	897		1,501	1,104		2,621	2,131		333	258		2,130	1,608		12,211	10,447*	+ 17	
Frozen custard.....	516	171		171	175		1,743	1,425		1,008	397*		1,671	1,352		2,858	1,604		1,210	1,154		1,104	78,621		19,595	15,629*	+ 24	
Frozen or frozen malted milk.....	194	231		3,947	1,636		840	1,117		173	173		441	416		182	168		160	139		76	77		5,613	4,130*	+ 36	
Frozen Products: 8/																												
Protein products.....	29			362	466		891	874		679	568		403	297		600	600		147	147		244	369		3,355	3,274*	+ 2	

TABLE 9—PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY STATES, 1946 AND 1947

Manufactured Products	Alabama		Arizona		Arkansas		California		Colorado		Connecticut		Delaware	
	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947
Creamery butter.....	g/	g/	1000 lb.	750	6,493	6,194	26,264	33,933	14,077	16,148	g/	g/	1000 lb.	-
American Type Cheese:														
Cheddar.....	3,006	4,094	g/	g/	7,462	7,618	1,268	1,489	444	1,331	-	-	-	-
Other Am. varieties (whole milk) 1/	-	-	-	-	-	-	2,819	2,546	-	-	-	-	-	-
Part skim. (whole milk) 2/	3,006	4,094	g/	g/	7,462	7,618	4,117	4,035	444	1,331	-	-	-	-
Swiss cheese (including block).....	-	-	-	-	-	-	504	998	-	-	-	-	-	-
Munster cheese.....	-	-	-	-	-	-	g/	g/	-	-	-	-	-	-
Brick cheese.....	-	-	-	-	-	-	g/	g/	-	-	-	-	-	-
Limburger cheese.....	-	-	-	-	-	-	613	626	-	-	-	-	-	-
All Italian varieties of cheese.....	-	-	-	-	-	-	3,753	5,214	512	724	-	-	-	-
Orem cheese 3/.....	-	-	-	-	-	-	g/	g/	g/	g/	-	-	-	-
Heufuatal cheese 4/.....	-	-	-	-	-	-	1,303	1,916	-	-	-	-	-	-
Blue mold cheese.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All other varieties of cheese.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total cheese 5/.....	3,006	4,094	2/701	2/543	7,462	7,618	2/10,320	2/12,822	2/1,259	2/2,195	2/174	2/174	-	-
Full skim Am. type cheese.....	-	-	-	-	-	-	-	10	-	g/	-	-	-	-
Cottage cheese (curd) 6/.....	178	222	1,121	1,042	593	562	43,963	41,984	2,432	2,647	196	563	g/	g/
Cottage cheese (cream) 6/.....	g/	g/	1,661	1,552	g/	79	63,326	61,624	1,667	737	408	439	-	-
Condensed milk (sweetened):														
Case goods (unskimmed).....	-	401	-	-	-	-	10,720	24,671	-	1,240	-	325	-	-
Bulk goods (unskimmed).....	-	-	-	-	-	-	7,992	13,295	-	-	-	-	-	-
Bulk goods (unskimmed).....	-	-	-	-	-	-	465	3,762	-	-	-	-	-	-
Plain condensed milk (unsweetened):														
Bulk goods (skimmed).....	g/	g/	g/	g/	563	-	56,033	50,567	g/	g/	g/	g/	-	-
Bulk goods (unskimmed).....	-	-	-	-	-	-	6,273	5,631	-	-	-	-	-	-
Evaporated milk (unsweetened):														
Case goods (unskimmed).....	-	-	g/	g/	g/	g/	324,007	287,313	g/	g/	-	-	-	-
Concentrated skim milk	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Condensed or evaporated buttermilk.....	-	-	-	-	-	-	-	g/	-	g/	-	-	-	-
Dry whole milk.....	-	-	-	-	-	-	13,578	23,403	-	-	-	-	-	-
Honfat dry milk solids:														
Spray process.....	-	g/	-	-	-	-	31,746	33,470	-	-	-	-	-	-
Roller process.....	g/	g/	g/	g/	g/	g/	5,464	8,318	g/	g/	-	-	-	-
Total for human food.....	g/	299	-	-	g/	g/	37,210	41,848	g/	g/	-	-	-	-
Dry milk for animal feed.....	-	-	g/	g/	g/	g/	544	3,595	-	g/	-	-	-	-
Dry buttermilk.....	-	-	g/	g/	g/	g/	225	203	428	428	-	-	-	-
Dry whey.....	-	-	g/	g/	g/	g/	g/	8,642	-	-	-	-	-	-
Dry casein.....	-	-	g/	g/	g/	g/	5,071	7,553	-	-	-	-	-	-
Frozen Products: 1/														
Ice cream (wholesale).....	6,614	6,846	1,532	1,739	2,772	2,667	34,751	41,984	4,777	5,145	6,746	7,085	2,011	2,291
Ice cream (retail).....	223	224	86	92	180	208	5,288	6,052	495	686	519	584	87	89
Total ice cream.....	6,843	7,070	1,618	1,831	2,952	2,875	40,039	48,036	5,272	5,831	7,265	7,669	2,098	2,380
Sherbet (milk).....	327	108	59	61	23	56	1,927	1,382	27	93	43	82	g/	g/
Ice milk.....	496	231	231	365	g/	g/	9,062	7,917	262	252	147	95	g/	g/
Frozen custards.....	5	5	33	8	34	49	-	-	130	116	49	134	-	-
Prosted or frozen malted milk.....	47	80	-	-	-	-	-	-	75	48	-	-	6	g/

See end of table 9 page 19 for footnotes.

TABLE 9--(Continued) PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY STATES, 1946 AND 1947

Manufactured Products	D. C.		Florida		Georgia		Idaho		Illinois		Indiana		Iowa	
	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947
	1000 lb.		1000 lb.		1000 lb.		1000 lb.		1000 lb.		1000 lb.		1000 lb.	
Creamery butter.	-	-	g/	-	553	809	24,923	25,928	55,390	59,296	33,487	35,783	187,665	209,145
American Type Cheese:														
Cheddar.	g/	g/	-	-	g/	g/	18,049	19,775	53,942	63,595	35,584	31,624	8,128	9,535
Other Am. varieties (whole milk) 1/2.	g/	g/	-	-	g/	g/	1,099	612	2,550	4,192	1,607	8,084	379	498
Total Am. varieties (whole milk) 2/2.	g/	g/	-	-	g/	g/	19,148	20,447	56,492	67,791	37,191	39,708	8,507	10,033
Part skim.	g/	g/	-	-	-	-	3,527	3,584	10,372	8,487	g/	g/	g/	g/
Swiss cheese (including block)	g/	g/	-	-	-	-	-	-	318	1,596	-	-	g/	g/
Munster cheese	-	-	-	-	-	-	-	g/	2,287	1,736	-	-	g/	g/
Brick cheese	-	-	-	-	-	-	-	-	2,155	1,647	-	-	-	-
Limburger cheese	-	-	-	-	-	-	-	-	1,700	1,025	-	-	-	-
All Italian varieties of cheese. . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cream cheese 3/4.	-	-	-	-	-	-	-	-	935	1,331	-	-	-	-
Neufchatel cheese 4/4.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blue mold cheese.	-	-	-	-	-	-	-	-	1,257	1,341	-	-	g/	g/
All other varieties of cheese. . . .	-	-	-	-	-	-	-	-	1,931	2,721	g/	g/	g/	g/
Total cheese 5/4.	g/	g/	-	-	g/	g/	22,686	24,058	277,704	286,604	237,882	240,239	29,234	29,555
Full skim Am. type cheese.	-	-	-	-	-	-	-	-	162	g/	-	-	-	-
Cottage cheese (curd) 6/4.	g/	g/	527	213	85	47	597	818	13,606	12,752	7,473	8,163	4,566	3,439
Cottage cheese (cream) 7/4.	g/	g/	800	247	42	g/	828	847	13,662	14,034	6,613	6,308	4,243	3,703
Condensed milk (sweetened):														
Case goods (unskimmed)	-	-	-	g/	g/	g/	-	-	3,342	40,032	-	45,786	728	1,710
Bulk goods (skimmed)	-	-	-	-	-	-	-	-	21,591	14,996	26,013	3,339	g/	604
Bulk goods (unskimmed)	-	-	-	-	-	-	-	-	3,135	-	895	-	-	-
Plain condensed milk (unweetened):														
Bulk goods (skimmed)	g/	g/	-	-	g/	g/	g/	g/	22,253	14,939	17,943	12,757	12,030	8,367
Bulk goods (unskimmed)	-	-	-	-	-	-	-	-	3,448	3,207	20,497	15,787	119	191
Evaporated milk (unweetened):														
Case goods (unskimmed)	-	-	-	-	-	-	g/	g/	188,196	178,286	127,107	115,478	41,844	43,704
Concentrated skim milk	-	-	-	-	-	-	-	-	-	-	g/	g/	5,166	5,348
Condensed or evaporated buttermilk .	-	-	-	-	-	-	-	-	39,186	35,017	g/	2,878	22,729	21,973
Dry whole milk	-	-	-	-	-	-	g/	g/	g/	g/	3,947	6,413	-	g/
Nonfat dry milk solids:														
Spray process.	-	-	-	-	-	-	30,465	30,624	1,551	1,007	13,199	11,091	4,488	4,302
Roller process.	-	-	-	-	-	-	37	73	5,917	6,306	13,682	13,006	5,406	5,085
Total for human food.	-	-	-	-	-	-	30,502	30,697	7,468	7,313	26,881	24,097	9,894	10,387
Dry skim milk for animal feed. . . .	-	-	-	-	-	-	366	341	102	g/	205	257	114	296
Dry buttermilk	-	-	-	-	-	-	79	113	607	716	698	716	5,980	6,000
Dry whey	-	-	-	-	-	-	5,233	5,958	3,892	4,208	g/	g/	344	-
Dry casein	-	-	-	-	-	-	g/	g/	271	2,574	-	-	-	578*
Frozen Products: 7/4.														
Ice cream (wholesale).	6,394	7,365	8,545	9,384	6,468	6,888	1,738	1,887	32,551	35,143	16,727	17,751	10,824	12,531
Ice cream (retail)	137	130	535	346	77	157	120	449	3,924	4,593	2,144	1,841	1,285	1,513
Total ice cream	6,531	7,495	9,080	9,730	6,545	7,045	2,058	2,336	36,475	39,736	18,871	19,592	12,109	14,044
Sherbet (milk)	92	63	236	134	250	282	26	19	860	1,271	211	145	231	203
Ice milk	-	-	232	202	392	392	178	111	1,257	1,257	48	11	375	156
Frozen custards.	84	85	17	180	-	18	g/	4	403	468	102	126	4	4
Frosted or frozen malted milk. . . .	g/	-	11	16	135	142	g/	27	539	501	42	97	68	135

See end of table 9 page 19 for footnotes.

TABLE 9—(Continued) PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY STATES, 1948 AND 1947

Manufactured Products	Kansas		Kentucky		Louisiana		Maine		Maryland		Massachusetts		Michigan	
	1948	1947	1948	1947	1948	1947	1948	1947	1948	1947	1948	1947	1948	1947
Creamery butter.	46,823	51,001	23,310	23,099	449	1000 lb.	53	68	2,972	2,941	248	1000 lb.	43,079	47,930
American Type Cheese:														
Cheddar.	8,525	15,804	23,033	19,338	g/	g/	-	-	-	-	-	-	19,323	20,407
Other Am. varieties (whole milk).	550	550	-	3,142	g/	g/	-	-	-	-	-	-	3,126	5,487
Total Am. cheese (whole milk) $\frac{3}{4}$	8,525	16,354	23,033	22,480	g/	g/	-	-	-	-	-	-	23,047	25,894
Part skim.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Swiss cheese (including block).	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Munster cheese.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emmentaler cheese.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Limburger cheese.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
All Italian varieties of cheese.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cream cheese $\frac{3}{4}$	-	-	-	-	-	g/	g/	g/	977	814	1,060	1,543	g/	-
Neufchatel cheese $\frac{1}{2}$	-	-	-	-	-	-	-	-	-	-	1,390	1,342	g/	-
Blue mold cheese.	-	-	-	-	-	g/	g/	g/	-	-	-	-	g/	-
All other varieties of cheese.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total cheese $\frac{5}{8}$	9/8,880	9/16,498	9/23,033	9/22,879	9/332	9/213	g/	g/	-	-	9/2,378	9/2,545	9/24,264	9/28,134
Full skin Am. type cheese.	-	-	g/	-	-	g/	-	-	-	-	-	-	-	-
Cottage cheese (curd) $\frac{5}{8}$	6,101	6,893	3,956	2,803	g/	g/	g/	g/	2,447	2,540	142	141	18,350	14,239
Cottage cheese (cream) $\frac{5}{8}$	3,790	2,835	2,671	2,149	g/	-	-	-	3,396	3,230	308	60	23,373	21,471
Condensed milk (sweetened):														
Case goods (unskimmed).	10,417	21,259	924	2,102	g/	g/	g/	g/	2,967	6,206	-	-	33,796	46,022
Bulk goods (unskimmed).	g/	g/	g/	534	-	-	-	-	-	-	-	-	16,237	52,247
Bulk goods (unskimmed).	-	-	-	-	-	-	-	-	-	-	-	-	746	-
Plain condensed milk (unsweetened):														
Bulk goods (skimmed).	31,003	13,722	1,705	707	-	-	g/	g/	1,055	3,472	-	g/	28,177	32,460
Bulk goods (unskimmed).	g/	1,056	g/	g/	-	-	g/	g/	g/	g/	-	-	12,815	11,997
Evaporated milk (unsweetened):														
Case goods (unskimmed).	64,829	63,315	183,824	166,101	-	-	-	-	g/	g/	-	-	186,267	188,303
Concentrated skim milk for animal feed.	23,609	30,923	g/	g/	-	-	-	-	g/	g/	-	-	g/	-
Condensed or evaporated buttermilk.	-	-	-	-	-	-	-	-	-	-	-	-	3,586	6,564
Dry whole milk.	-	-	-	-	-	-	-	-	-	-	-	-	10,843	13,047
Nonfat dry milk solids:														
Spray process.	5,732	5,001	958	g/	-	-	-	-	239	275	-	-	14,632	12,347
Roller process.	1,440	1,898	610	g/	-	-	g/	g/	4,012	2,945	-	-	20,619	24,639
Total for human food.	7,172	6,899	1,768	1,305	-	-	g/	g/	4,271	3,221	-	-	34,859	36,986
Dry skim milk for animal feed.	g/	g/	g/	666	-	-	g/	g/	g/	g/	-	g/	545	387
Dry buttermilk.	513	378	g/	g/	-	-	-	-	-	-	-	-	2,553	2,462
Dry whey.	-	-	-	-	-	-	g/	g/	-	-	-	-	g/	-
Dry casein.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frozen Products: $\frac{1}{2}$														
Ice cream (wholesale).	5,583	6,107	4,218	4,197*	6,440	6,921*	2,890	3,630	8,182	9,341	18,195	20,859	23,161	24,676
Ice cream (retail).	1,163	1,063	332	315	177	223	375	325	347	303	1,409	1,713	3,071	3,119
Total ice cream.	6,746	7,170	4,550	4,712*	6,617	7,144*	3,065	3,955	8,529	9,644	19,604	22,572	26,232	27,815
Sherbet (milk).	90	86	107	70	370	400	18	23	246	118	352	286	599	643
Ice milk.	-	-	77	g/	235	g/	68	53	44	g/	222	67	-	-
Frozen custards.	75	53	-	g/	3	7	102	43	g/	g/	39	49	-	-
Frosted or frozen malted milk.	239	110	36	21	16	-	-	-	-	-	28	30	-	-

See end of table 9 page 19 for footnotes.

TABLE 9--(Continued) PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY STATES, 1946 AND 1947

Manufactured Products	Minnesota		Mississippi		Missouri		Montana		Nebraska		Nevada	
	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947
Creamery butter.	222,657	243,874	2,523	3,014	61,850	63,804	8,637	9,350	78,240	79,003	940	831
American Type Cheese:												
Cheddar.	51,635	56,586	11,094	11,344	56,330	57,066	2,818	3,808	853	1,302	g/	g/
Other Am. varieties (whole milk).	51,635	56,586	11,094	11,344	56,330	57,066	2,818	3,808	853	1,302	g/	g/
Total Am. cheese (whole milk).	103,270	113,172	22,188	22,688	112,660	114,132	5,636	7,616	1,706	2,604	g/	g/
Part skim.	110	g/	-	-	-	-	-	-	-	-	-	-
Swiss cheese (including block).	110	g/	-	-	-	-	-	-	-	-	-	-
Munster cheese.	110	g/	-	-	-	-	-	-	-	-	-	-
Brick cheese.	110	g/	-	-	-	-	-	-	-	-	-	-
Lindberger cheese.	110	g/	-	-	-	-	-	-	-	-	-	-
All Italian varieties of cheese.	110	g/	-	-	-	-	-	-	-	-	-	-
Cream cheese 1/2.	1,426	1,290	-	-	g/	2,394	-	-	g/	g/	-	-
Reichharts cheese 1/2.	1,426	1,290	-	-	-	-	-	-	-	-	-	-
Blue mold cheese.	1,426	1,290	-	-	-	-	-	-	-	-	-	-
All other varieties of cheese.	1,426	1,290	-	-	-	-	-	-	-	-	-	-
Total cheese 1/2.	2/54,061	2/56,949	2/11,142	2/11,350	2/56,378	2/59,555	2,818	3,808	2/856	2/1,304	g/	g/
Full skim Am. type cheese.												
Cottage cheese (curd) 6/8.	6,072	5,553	9	g/	7,289	6,999	699	601	2,596	2,555	106	83
Cottage cheese (cream) 6/8.	7,271	7,430	g/	g/	6,388	6,315	921	740	3,333	2,998	138	110
Condensed milk (sweetened):												
Case goods (unskimmed).	9,054	29,491	g/	g/	4,567	8,505	-	-	1,001	1,861	-	-
Bulk goods (unskimmed).	g/	11,720	g/	-	946	180	-	-	257	g/	-	-
Plain condensed milk (unsweetened):												
Bulk goods (skimmed).	17,548	24,328	5,717	g/	23,122	17,075	-	-	599	1,893	-	-
Bulk goods (unskimmed).	g/	553	g/	-	17,804	11,641	-	-	156	g/	-	-
Evaporated milk (unsweetened):												
Case goods (unskimmed).	33,820	g/	44,593	41,440	208,026	177,953	-	-	-	-	-	-
Concentrated skim milk for animal feed												
Condensed or evaporated buttermilk.	4,233	7,579	-	-	16,761	19,034	-	-	15,479	18,040	-	-
Dry whole milk.	34,763	22,803	-	-	g/	g/	-	-	-	-	-	-
Nonfat dry milk solids:												
Spray process.	106,928	106,167	-	-	23,707	21,713	-	-	g/	4,880	-	-
Roller process.	56,069	56,660	1,912	1,847	6,135	6,135	-	-	-	-	g/	g/
Total for human food.	162,997	162,827	1,912	1,847	29,842	27,848	-	-	g/	4,880	g/	g/
Dry skim milk for animal feed.												
Dry buttermilk.	2,434	2,537	g/	333	625	1,952	-	-	g/	2,025	g/	g/
Dry whey.	19,643	20,060	g/	153	1,252	2,260	-	-	911	-	-	-
Dry casein.	15,108	25,656	-	-	3,295	1,796	-	-	-	-	-	-
Dry casein 1/2.	1,714	7,650	-	-	g/	g/	-	-	-	-	-	-
Frozen Products: 1/												
Ice cream (wholesale).	14,130	15,707	3,548	3,655	15,791	18,141	1,909	1,896	6,096	6,448	692	602
Ice cream (retail).	561	284	321	321	517	788	812	810	511	584	52	36
Total ice cream.	14,711	16,389	3,869	3,976	16,308	18,929	2,721	2,726	6,607	7,132	704	638
Sherbet (milk).												
Ice milk.	141	123	244	206	320	339	23	17	143	126	24	4
Frozen custards.	32	30	256	149	389	149	-	-	212	80	133	98
Frozen or frozen malted milk.	52	-	44	25	13	6	-	-	6	6	-	-
Frozen or frozen malted milk.	113	116	15	12	159	126	-	-	71	64	3	g/

See end of table 9 page 19 for footnotes.

TABLE 9--(Continued) PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY STATES, 1946 AND 1947

Manufactured Products	New Hampshire		New Jersey		New Mexico		New York		North Carolina		North Dakota	
	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947
Creamery butter.	1000 lb.	-	1000 lb.	83	1000 lb.	1,350	1000 lb.	17,686	1000 lb.	1,732	1000 lb.	49,525
American Type Cheeses:												
Cheddar.	-	-	-	-	-	-	22,316	21,256	g/	g/	-	g/
Other Am. varieties (whole milk) 1/2.	-	-	-	-	-	-	5,314	6,935	g/	g/	-	g/
Total Am. cheese (whole milk) 1/2.	-	-	-	-	-	-	30,630	30,191	g/	g/	-	g/
Part skim.	-	-	-	-	-	-	40	40	-	-	-	-
Swiss cheese (including block).	-	-	-	-	-	-	17	23	-	-	-	-
Runter cheese.	-	-	-	-	-	-	1,342	1,440	-	-	-	-
Brick cheese.	-	-	-	-	-	-	15,428	13,310	-	-	-	-
Limburger cheese.	-	-	768	648	-	-	-	-	-	-	-	-
All Italian varieties of cheese.	-	-	-	-	-	-	19,005	20,287	-	-	-	-
Cream cheese 3/4.	-	-	g/	g/	-	-	539	618	-	-	-	-
Neufchatel cheese 1/4.	-	-	-	-	-	-	-	-	-	-	-	-
Blue mold cheese.	-	-	-	-	-	-	6,302	5,063	-	g/	-	-
All other varieties of cheese.	-	-	-	-	-	-	-	-	-	-	-	-
Total cheese 5/8.	-	-	2/1,136	2/1,144	g/	g/	2/73,405	2/71,043	g/	g/	-	g/
Full skim Am. type cheese.	-	-	-	-	-	-	133	325	-	-	-	-
Cottage cheese (curd) 5/8.	34	g/	158	1,228	g/	88	45,776	25,910	916	103	151	134
Cottage cheese (cream) 5/8.	45	g/	1,052	1,127	g/	118	22,103	17,512	529	159	184	200
Condensed milk (sweetened):												
Case goods (unskimmed).	-	-	-	-	-	-	16,806	37,739	-	-	-	-
Bulk goods (skimmed).	-	-	g/	g/	-	-	29,094	86,142	-	-	g/	-
Bulk goods (unskimmed).	-	-	-	-	-	-	2,296	10,156	-	-	-	-
Plain condensed milk (unsweetened):												
Bulk goods (skimmed).	-	-	g/	g/	g/	g/	72,273	53,371	128	g/	g/	-
Bulk goods (unskimmed).	-	-	g/	g/	-	-	37,621	28,901	-	-	-	-
Evaporated milk (unsweetened):												
Case goods (unskimmed).	-	-	-	-	-	-	70,987	39,734	g/	g/	-	-
Concentrated skim milk for animal feed.	-	-	-	-	-	-	g/	g/	-	-	-	-
Condensed or evaporated buttermilk.	-	-	-	-	-	-	15,918	12,633	-	-	-	-
Dry whole milk.	-	-	-	-	-	-	28,077	27,087	-	-	-	-
Nonfat dry milk solids:												
Spray process.	-	-	-	-	-	-	21,868	28,440	-	-	-	-
Roller process.	-	-	-	-	-	-	49,945	53,537	-	-	g/	g/
Total for human food.	-	-	-	-	-	-	511	1,585	-	-	-	-
Dry skim milk for animal feed.	-	-	-	-	-	-	146	g/	-	-	2,634	g/
Dry buttermilk.	-	-	-	-	-	-	10,949	16,715	-	-	-	2,884
Dry whey.	-	-	-	-	-	-	3,126	5,369	-	-	-	-
Dry casein.	-	-	-	-	-	-	-	-	-	-	-	-
Frozen Products: 1/												
Ice cream (wholesale).	1,439	1,191	9,542	11,050*	1,039	1,024	49,459	55,616	13,316	12,859	2,136	2,398
Ice cream (retail).	226	251	1,048	1,115	55	619	6,415	6,602	944	944	188	279
Total ice cream.	1,665	1,442	10,590	12,165*	1,094	1,264	55,874	62,218	14,260	13,803	2,324	2,677
Sherbet (milk).	16	12	112	69*	24	24	512	710	277	228	20	4
Ice milk.	g/	-	g/	g/	115	108	3,236	1,615	643	712	-	-
Frozen custards.	-	-	47	59	3	-	188	246	171	g/	-	-
Frosted or frozen malted milk.	-	-	22	43	2	2	-	-	97	61	2	3

See end of table 9 page 19 for footnotes.

TABLE 9—(Continued) PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY STATES, 1946 AND 1947

Manufactured Products	Ohio		Oklahoma		Oregon		Pennsylvania		Rhode Island		South Carolina	
	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947
Creamery butter	52,535	55,767	31,332	35,675	17,411	20,299	9,544	10,923	1000 lb.	—	217	246
American Type Cheese:												
Cheddar	12,568	14,896	12,467	15,461	25,400	28,596	411	1,199	—	—	—	—
Other Am. varieties (whole milk) 3/	7,571	8,354	—	—	170	—	397	73	—	—	—	—
Total Am. cheese (whole milk) 2/	20,159	23,260	12,467	15,461	25,570	28,596	808	1,272	—	—	—	—
Part skim	2,094	1,687	—	—	—	—	—	—	—	—	—	—
Swiss cheese (including block)	6,663	6,609	—	—	—	—	606	615	—	—	—	—
Munster cheese	—	—	—	—	—	—	—	—	—	—	—	—
Monter cheese	—	—	—	—	—	—	—	—	—	—	—	—
Brick cheese	39	68	—	—	—	—	—	—	—	—	—	—
Limburger cheese	—	—	—	—	—	—	—	—	—	—	—	—
All Italian varieties of cheese	658	741	—	—	—	—	1,429	1,480	—	—	—	—
Cream cheese 3/	—	—	—	—	—	—	—	—	—	—	—	—
Neufchatel cheese 4/	—	—	—	—	—	—	3,574	3,554	—	—	—	—
Blue mold cheese	—	—	—	—	—	—	3,241	3,308	—	—	—	—
All other varieties of cheese	—	—	—	—	—	—	—	—	—	—	—	—
Total cheese 5/	9/36,998	2/38,912*	9/12,566	2/15,461	9/26,570	2/29,253	9/10,919	9/10,990	—	—	—	—
Full skim Am. type cheese												
Cottage cheese (curd) 6/	612	458	—	—	—	—	—	—	—	—	—	—
Cottage cheese (cream) 6/	21,657	20,945*	2,246	2,440	3,616	3,671	13,048	11,661	—	—	—	—
Cottage cheese (cream) 6/	24,042	22,963	3,429	2,731	1,943	2,406	5,765	5,590	—	—	—	—
Condensed milk (sweetened):												
Cane goods (unskimmed)	—	—	—	—	—	—	—	—	—	—	—	—
Bulk goods (skimmed)	26,521	47,763	1,732	4,445	1,159	—	24,535	45,994	—	—	—	—
Bulk goods (unskimmed)	4,865	5,071	1,082	2,510	—	—	3,835	483	—	—	—	—
Plain condensed milk (unsweetened):	—	—	—	—	—	—	—	—	—	—	—	—
Bulk goods (skimmed)	22,513	15,955	4,520	3,002	—	—	22,725	17,534	—	—	—	—
Bulk goods (unskimmed)	14,884	8,144	—	223	—	—	20,813	13,844	—	—	—	—
Evaporated milk (unsweetened):	—	—	—	—	—	—	—	—	—	—	—	—
Cane goods (unskimmed)	332,965	335,806	—	—	—	27,072	52,508	44,499	—	—	—	—
Concentrated skim milk for animal feed . .	—	—	—	—	—	—	—	—	—	—	—	—
Condensed or evaporated buttermilk . . .	19,324	21,371	3,064	3,869	—	—	3,501	3,573	—	—	—	—
Dry whole milk	12,325	12,859	—	—	—	—	—	—	—	—	—	—
Nonfat dry milk solids:												
Spray process	16,045	13,285	—	—	4,325	7,866	4,592	5,181	—	—	—	—
Roller process	11,192	11,718	—	—	450	318	3,239	3,902	—	—	—	—
Total for human food	29,237	25,023	2,385	2,078	4,775	8,184	7,831	9,083	—	—	—	—
Dry skim milk for animal feed	—	—	—	—	—	—	—	—	—	—	—	—
Dry buttermilk	423	661	—	—	758	1,447	662	801	—	—	—	—
Dry whey	1,231	1,690	1,196	1,052	—	—	—	—	—	—	—	—
Dry casein	—	—	568	357	—	9,725	—	—	—	—	—	—
Frozen Products: 7/												
Ice cream (wholesale)	31,619	35,592	6,386	7,392	5,362	5,965	61,506	68,602	3,914	4,665	2,510	2,899
Ice cream (retail)	3,011	3,480	350	442	638	713	3,853	3,956	294	407	92	72
Total ice cream	34,630	39,072	6,736	7,834	6,000	6,678	65,359	72,558	4,208	5,072	2,602	2,971
Sherbet (milk)	656	452	114	84	90	95	668	553	27	42	40	72
Ice milk	188	17	169	118	817	667	174	57	56	74	173	74
Frozen custards	335	543	22	1	25	6	204	161	—	—	—	—
Frosted or frozen malted milk	310	276	144	94	50	111	152	177	—	—	78	—

See end of table 9 page 19 for footnotes.

TABLE 9--(Continued) PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY STATES, 1946 AND 1947

Manufactured Products	South Dakota		Tennessee		Texas		Utah		Vermont		Virginia	
	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947
Creamery butter,	31,169	35,136	13,518	13,293	12,731	17,045*	5,485	4,929	1000 lb.	1000 lb.	7,303	7,527
American Type Cheese:												
Cheddar,	1,141	1,421	37,004	35,605	6,920	10,904	7,013	8,046	756	525	g/	g/
Other Am. varieties (whole milk) 1/2,	1,141	1,421	37,004	35,605	6,920	10,904	7,013	8,046	756	525	g/	g/
Total Am. cheese (whole milk) 2/2,	1,141	1,421	37,004	35,605	6,920	10,904	7,013	8,046	756	525	g/	g/
Part skm,	-	-	-	-	-	-	-	-	-	-	-	-
Swiss cheese (including black),	-	-	-	-	-	-	-	-	-	-	-	-
Munster cheese,	-	-	-	-	-	-	-	-	-	-	-	-
Brick cheese,	-	-	-	-	-	-	-	-	-	-	-	-
Limburger cheese,	-	-	-	-	-	-	-	-	-	-	-	-
All Italian varieties of cheese,	-	-	-	-	-	-	-	-	-	-	-	-
Oran cheese 3/2,	-	-	-	-	-	-	-	-	-	-	-	-
Neufchatel cheese 1/2,	-	-	-	-	-	-	-	-	-	-	-	-
Blue mold cheese,	-	-	-	-	-	-	-	-	-	-	-	-
All other varieties of cheese,	-	-	-	-	-	-	-	-	-	-	-	-
Total cheese 5/2,	1,141	2/1,523	9/40,091	2/42,403*	9/9,217	2/13,338	2/11,485	2/12,026	2/3,398	2/3,094	g/	g/
Full skm Am. type cheese,	g/	-	-	-	-	-	g/	-	270	123	-	-
Potage cheese (mild) 6/2,	255	170	1,231	592	1,964	1,324	1,886	1,888	8,267	3,236	1,115	1,165
Cottage cheese (cream) 5/2,	503	288	535	330*	3,333	2,878	2,660	1,980	5,628	5,060	g/	g/
Condensed milk (sweetened):												
Case goods (unskimmed),	-	-	-	-	2,058	6,434*	-	-	6,309	17,444	-	14,920
Bulk goods (unskimmed),	-	-	-	-	g/	1,067*	-	-	g/	1,362	-	g/
Plain condensed milk (unsweetened):												
Bulk goods (skimmed),	-	-	16,611	12,123	9,666	10,441*	901	1,922	7,076	4,527	22,425	9,794
Bulk goods (unskimmed),	-	-	g/	g/	g/	g/	-	-	g/	g/	2,814	631
Evaporated milk (unskimmed):												
Case goods (unskimmed),	-	-	136,198	124,704	28,957	37,575	70,885	69,257	-	-	g/	g/
Concentrated skim milk for animal feed	3,542	4,343	g/	g/	g/	g/	-	-	-	-	-	-
Condensed or evaporated buttermilk,	-	-	-	-	-	-	-	-	-	-	-	-
Dry whole milk,	-	-	-	-	-	-	g/	g/	g/	g/	-	-
Nonfat dry milk solids:												
Spray process,	-	-	g/	g/	g/	g/	4,309	3,895	5,963	4,405	2,156	g/
Roller process,	-	-	-	-	-	-	1,402	2,942	1,402	2,942	-	-
Total for human food,	-	-	g/	g/	g/	g/	4,534	3,960	7,412	7,412	2,156	g/
Dry skim milk for animal feed,	314	401	-	-	g/	332	-	g/	g/	g/	561	1,400
Dry buttermilk,	-	-	-	-	133	161	g/	g/	g/	g/	-	-
Dry whey,	-	-	-	-	-	-	g/	g/	g/	g/	-	-
Dry casein,	-	-	-	-	-	-	g/	g/	419	885	-	-
Frozen Products: 1/												
Ice cream (wholesale),	2,322	2,602	12,773	12,781	23,322	25,447*	2,348	2,862	1,294	1,616	9,780	10,465
Ice cream (retail),	325	392	469	396	835	1,030	366	325	516	516	516	579
Total ice cream,	2,647	2,994	13,242	13,177	24,157	26,477*	2,714	3,187	1,810	2,132	10,296	11,044
Sherbet (milk),	33	16	313	130	1,123	1,077	73	34	10	9	73	63
Ice milk,	-	-	287	274	694	616	301	219	g/	g/	-	-
Frozen custards,	-	-	23	10	88	93	-	g/	g/	g/	150	93
Frosted or frozen malted milk,	27	14	115	54	193	175	65	95	-	-	20	9

See end of table 9 page 19 for footnotes.

TABLE 9--(Continued) PRODUCTION OF MANUFACTURED DAIRY PRODUCTS, BY STATES, 1946 AND 1947

Manufactured Products	Washington		West Virginia		Wisconsin		Wyoming		U. S. Total		Percent Change
	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947	
	1000 lb.		1000 lb.		1000 lb.		1000 lb.		1000 lb.		
Granary butter	19,630	21,666	1,614	1,900	99,992	115,710	2,078	2,767	1,210,042	1,329,094*	- 9
American Type Cheese:											
Cheddar	4,166	6,975	g/	g/	373,708	405,154	g/	604	806,381	879,663*	- 8
Other Am. varieties (whole milk) 1/2	102	118	g/	g/	12,112	10,889	g/	15	42,327	53,055	- 20
Total Am. cheese (whole milk) 2/3	4,268	7,093	g/	g/	385,820	416,043	g/	619	850,708	932,718*	- 9
Part skim	-	-	-	-	-	-	-	-	3,987	4,906	- 19
Swiss cheese (including block)	g/	g/	-	-	43,192	46,720	g/	g/	70,666	71,612	- 1
Monter cheese	-	-	-	-	7,990	9,135	-	-	8,308	9,731	- 15
Brick cheese	g/	g/	-	-	15,726	14,418	-	-	18,198	16,802	+ 8
Limburger cheese	-	-	-	-	3,637	4,397	-	-	7,358	7,753	- 5
All Italian varieties of cheese	g/	g/	-	-	19,492	15,356	-	-	43,377	38,100	+ 14
Cream cheese 3/4	g/	g/	-	-	13,339	13,881	-	-	52,975	62,074*	- 15
Neufchâtel cheese 4/5	-	-	-	-	-	-	-	-	3,841	4,489	- 13
Blue mold cheese	g/	g/	-	-	5,536	7,366	-	-	9,289	10,580	- 12
All other varieties of cheese	1,865	1,270	-	-	7,172	8,517	-	-	25,719	24,241	+ 6
Total cheese 5/6	9/6,824	2/6,774	g/	g/	502,104	535,873	g/1,557	2/1,747	1,094,425	1,182,946*	- 7
Full skim Am. type cheese	-	-	-	-	-	-	-	-	1,956	2,153	- 9
Cottage cheese (curr) 6/7	9,219	9,426	2,273	2,611	17,194	14,630	231	164	255,606	215,302*	+ 19
Cottage cheese (cream) 8/9	14,367	15,557	2,853	2,915	9,783	11,580	g/	-	248,221	230,597*	+ 8
Condensed milk (sweetened):											
Case goods (unskimmed)	2,697	4,225	g/	g/	35,041	38,485	-	-	126,205	164,733	- 23
Bulk goods (skimmed)	1,465	1,471	-	-	30,947	101,810	-	-	241,432	541,413*	- 55
Bulk goods (unskimmed)	-	-	-	-	8,595	21,164	-	-	45,558	82,553*	- 45
Plain condensed milk (unsweetened):											
Bulk goods (skimmed)	504	1,444	g/	g/	88,412	83,237	-	-	493,893	403,194*	+ 22
Bulk goods (unskimmed)	4,168	1,871	-	-	53,840	49,666	-	-	223,253	174,525*	+ 28
Evaporated milk (unsweetened):											
Case goods (unskimmed)	92,182	75,373	g/	g/	875,123	865,407	-	-	3,382,493	3,208,027	+ 5
Concentrated skim milk for animal feed	-	g/	-	-	-	-	-	-	22,633	18,642	+ 21
Condensed or evaporated buttermilk	-	-	-	-	-	-	-	-	170,954	189,135	- 10
Dry whole milk	g/	g/	-	-	73,336	62,337	-	-	170,087	164,866	+ 3
Moofat dry milk solids:											
Spray process	5,379	6,154	g/	g/	122,129	113,693	-	-	436,071	418,704	+ 4
Roller process	3,503	4,979	-	-	79,431	75,872	-	-	245,461	259,237	- 5
Total for human food	9,002	11,133	g/	g/	201,560	189,565	g/	g/	681,532	677,941	+ 1
Dry skim milk for animal feed	319	393	g/	g/	3,306	3,247	-	-	13,145	22,149	- 41
Dry buttermilk	-	g/	-	-	2,152	2,675	-	-	41,528	45,437	- 9
Dry whey	g/	g/	-	-	64,886	71,285	-	-	125,165	157,583	- 21
Dry casein	974	1,192	-	-	1,662	2,151*	-	-	14,372	35,851*	- 60
Frozen Products: 1/											
Ice cream (wholesale)	6,411	8,250	6,084	6,485	14,014	15,464	627	638	521,548	576,839*	- 10
Ice cream (retail)	1,012	1,322	206	283	2,685	2,355	113	162	46,512	52,064	- 7
Total ice cream	7,423	9,572	6,290	7,128	16,699	17,819	760	800	570,060	628,903*	- 9
Sherbet (milk)	113	131	245	96	164	152	7	6	12,211	10,447*	+ 17
Ice milk	1,125	1,035	187	117	-	-	-	g/	19,545	15,829*	+ 24
Frozen custards	51	71	g/	g/	-	-	-	g/	5,613	4,130*	+ 36
Frozen or frozen malted milk	194	258	52	57	-	-	-	g/	3,355	3,274	+ 2

* Revised.

1/ Includes Colby, Washed Curd, High and Low Moisture Jack, Monterey, and Granular.

2/ Comparable with data published prior to 1946 under the designation of American Cheddar cheese.

3/ Not less than 33 percent butterfat.

4/ Butterfat content ranging from 20 to 32 percent, inclusive.

5/ Excluding full skim American and Cottage cheese.

6/ Cottage Cheese Curd includes Cottage, Pot, and Bakers' cheese with a butterfat content of less than 4 percent, made by reporting plants.

7/ Creamed Cottage cheese includes cheese with a butterfat

content of 4 to 13 percent. Cottage Cheese Curd and Creamed Cottage Cheese should not be added together to get a total Cottage cheese figure, for while some of the Cottage Cheese Curd is sold direct for consumption without further processing a considerable part is creamed within the plant or shipped to another plant for creaming prior to sale.

1/ The production shown for frozen products includes that made by all types of plants for both wholesale and retail.

2/ Production by States not shown when made by less than 3 plants.

3/ Sum of individual varieties does not equal total cheese since the production of some varieties is not shown separately when made by less than 3 plants.

U. S. totals for all products include production for some States not shown separately in this table except Munster cheese and ice cream for wholesale, retail, and total.

TABLE 10-CHEESE BUTTER (including whey butter) PRODUCED MONTHLY, BY STATES, 1946

State and Division	Number plants	January 1000 lb.	February 1000 lb.	March 1000 lb.	April 1000 lb.	May 1000 lb.	June 1000 lb.	July 1000 lb.	August 1000 lb.	September 1000 lb.	October 1000 lb.	November 1000 lb.	December 1000 lb.	Total 1946 1000 lb.
Maine.....	•	-	-	-	1	3	18	14	9	6	2	-	-	53
Vermont.....	11	7	6	6	37	179	371	85	39	26	12	6	24	798
Massachusetts.....	6	17	14	15	15	27	26	43	21	33	13	14	12	248
New England.....	21	24	20	21	53	209	416	140	69	65	27	20	36	1,110
New York.....	112	662	334	547	793	1,082	1,818	1,625	2,030	1,770	1,448	1,009	1,720	14,868
Pennsylvania.....	42	418	381	467	547	1,036	1,307	1,203	1,190	1,027	904	596	469	9,544
Middle Atlantic.....	196	1,081	718	1,017	1,343	2,126	3,159	2,831	3,223	2,799	2,354	1,606	2,391	17,244
Ohio.....	133	2,733	2,336	2,460	3,269	5,589	6,091	5,589	5,684	5,115	5,436	4,119	4,134	52,535
Indiana.....	69	1,984	1,794	1,940	2,300	3,244	3,212	3,145	3,360	3,078	3,549	3,041	3,041	33,487
Illinois.....	101	3,378	3,195	3,531	4,029	5,814	5,660	5,482	5,916	5,010	5,334	3,833	4,208	55,390
Michigan.....	144	3,563	3,137	3,137	3,369	4,763	5,359	4,563	3,955	3,451	3,421	2,862	2,970	43,079
Wisconsin.....	306	7,307	6,500	7,398	8,522	10,433	9,960	9,017	7,940	7,001	7,146	8,459	9,709	93,992
East North Central.....	753	18,065	16,391	18,466	21,469	29,813	30,282	27,796	26,835	23,655	25,486	22,113	24,062	284,483
Minnesota.....	703	18,252	17,839	21,262	24,107	24,526	24,227	20,633	17,095	13,686	13,283	13,626	17,121	222,657
Iowa.....	400	13,464	13,410	15,587	16,316	21,061	21,909	19,318	17,169	13,569	12,591	11,655	11,816	187,885
Missouri.....	70	3,295	3,030	3,036	3,363	6,424	5,763	6,449	6,999	6,801	6,950	4,977	4,143	61,830
North Dakota.....	105	2,454	2,630	3,486	3,766	5,189	6,320	6,953	5,002	3,535	2,678	1,981	1,904	44,999
South Dakota.....	102	1,828	1,957	2,222	2,641	4,233	4,233	3,984	3,315	2,354	1,828	1,469	1,540	31,169
Nebraska.....	110	5,099	5,014	5,844	6,946	9,269	9,057	9,015	8,102	5,870	4,879	4,539	4,606	78,240
Kansas.....	72	3,291	3,350	3,629	3,900	5,140	4,851	4,513	4,672	3,474	3,120	3,111	3,213	46,823
West North Central.....	1,582	47,883	47,230	55,086	58,659	75,597	76,582	70,312	62,354	49,289	45,330	41,378	44,343	673,603
Maryland.....	•	132	112	150	181	303	346	355	376	347	307	208	155	2,972
Virginia.....	37	326	286	292	433	715	861	920	951	883	769	517	368	7,303
West Virginia.....	•	75	60	58	74	163	198	225	228	196	168	93	76	1,614
North Carolina.....	16	84	58	68	105	181	107	83	166	162	243	165	248	1,630
South Carolina.....	•	12	11	13	20	21	23	24	23	22	19	15	14	217
Georgia.....	7	29	27	33	56	71	62	71	61	42	29	25	47	553
South Atlantic.....	72	659	536	614	869	1,414	1,597	1,678	1,805	1,652	1,535	1,023	908	17,290
Kentucky.....	20	900	972	951	1,410	2,614	2,445	3,093	2,989	2,685	2,588	1,473	1,170	23,310
Tennessee.....	29	537	602	569	835	1,443	1,234	1,446	2,002	1,495	1,534	1,078	783	13,518
Mississippi.....	10	64	88	107	178	283	246	277	380	282	274	207	141	2,523
Arkansas.....	10	258	298	291	471	763	814	848	837	720	565	380	308	6,493
Louisiana.....	•	33	45	45	33	41	36	36	39	41	37	31	42	449
Oklahoma.....	57	1,828	1,976	2,187	2,732	3,828	3,620	3,720	3,520	2,728	1,957	1,658	1,578	31,352
Texas.....	58	747	891	847	1,078	1,532	1,335	1,319	1,292	1,044	933	964	779	12,731
South Central.....	200	4,372	4,768	4,940	6,750	10,556	9,768	10,755	11,079	8,972	7,900	5,800	4,812	170,474
Montana.....	70	529	505	606	695	982	1,160	1,087	881	687	589	461	495	8,637
Idaho.....	39	1,719	1,730	1,978	2,114	2,571	2,563	2,389	2,199	2,043	1,980	1,759	1,878	24,923
Wyoming.....	24	154	144	165	161	187	214	214	164	155	160	170	170	2,078
Colorado.....	53	819	812	943	1,245	1,575	1,695	1,670	1,434	1,083	951	886	944	14,077
New Mexico.....	7	77	81	89	105	126	129	137	124	98	66	61	63	1,164
Arizona.....	5	75	61	87	82	72	43	44	29	23	39	37	43	635
Utah.....	20	423	419	503	464	568	537	520	459	361	423	371	439	5,485
Nevada.....	6	66	65	80	86	95	96	90	77	69	71	71	74	940
Mountain.....	224	3,682	3,819	4,451	4,992	6,176	6,437	6,151	5,365	4,539	4,309	3,814	4,066	57,339
Washington.....	83	1,133	1,113	1,278	1,686	2,461	2,493	2,248	1,994	1,641	1,443	1,111	1,029	19,630
Oregon.....	48	1,034	1,016	1,327	1,752	2,246	2,096	1,976	1,603	1,385	1,303	1,113	960	17,811
California.....	196	2,122	2,294	2,974	3,277	4,241	4,742	4,257	3,553	2,684	2,171	1,681	1,461	26,264
Pacific.....	3,224	4,289	4,413	5,579	6,715	7,178	6,531	5,481	5,190	4,630	4,917	4,552	4,470	61,705
UNITED STATES.....	3,224	80,055	77,895	90,194	100,810	133,101	134,372	125,144	115,878	95,561	91,858	80,306	84,888	1,210,042

* Either 3 or 4 plants reporting.
 † Regional totals include production for some States not shown separately.
 Production omitted for States in which less than 3 plants reported.

TABLE 11—CHEDDAR CHEESE (made from whole milk) PRODUCED MONTHLY, BY STATES, 1948

State	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
Vermont.....	•	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.
New England.....	•	45	49	62	73	93	100	90	69	56	50	35	34	756
	•	45	49	62	73	93	100	90	69	56	50	35	34	756
New York.....	86	92	45	328	2,660	4,200	5,764	3,756	2,866	1,422	602	223	358	22,316
Pennsylvania.....	8	1	1	6	30	74	93	56	47	39	28	18	11	411
Middle Atlantic.....	94	93	46	334	2,690	4,274	5,857	3,812	2,913	1,461	630	241	376	22,727
Ohio.....	14	473	649	280	720	1,861	1,686	1,608	1,670	1,220	1,014	684	723	12,588
Indiana.....	25	1,506	1,708	1,995	2,696	4,039	3,850	3,850	4,087	3,331	2,324	2,326	2,426	35,584
Illinois.....	87	2,835	2,948	3,619	4,591	7,078	6,442	6,223	5,800	4,442	3,725	2,679	2,961	57,962
Michigan.....	26	984	1,014	1,409	1,566	2,278	2,558	2,133	2,101	1,718	1,438	1,004	1,060	33,353
Wisconsin.....	993	23,517	24,304	30,175	32,735	42,732	45,631	38,712	44,384	28,049	28,082	22,142	23,060	373,708
East North Central.....	1,151	29,335	30,863	37,496	42,378	58,321	61,095	52,586	48,042	38,800	35,483	28,835	32,169	495,145
Minnesota.....	59	3,714	3,939	4,461	3,996	5,805	5,759	5,062	4,981	3,671	3,181	2,942	4,124	51,635
Iowa.....	25	540	557	648	689	941	948	826	718	578	586	489	608	8,128
Missouri.....	47	2,051	1,960	2,467	3,853	6,337	6,303	7,053	7,441	6,495	5,335	3,650	3,385	56,330
South Dakota.....	•	64	66	89	92	171	151	124	111	82	58	50	83	1,141
Nebraska.....	•	21	67	97	97	193	150	66	69	11	9	8	65	853
Kansas.....	25	564	561	578	690	1,092	845	850	952	676	522	483	712	8,525
West North Central.....	164	6,954	7,150	8,340	9,417	14,539	14,156	13,981	14,272	11,513	9,691	7,622	8,977	126,612
South Atlantic.....	6	61	45	49	99	210	263	294	304	271	251	151	128	1,212
Kentucky.....	18	550	553	758	1,403	2,596	2,559	2,621	3,471	2,927	2,559	1,755	1,281	23,033
Tennessee.....	27	1,152	1,368	1,862	3,064	4,642	4,128	4,456	5,242	4,124	3,098	2,152	1,736	37,004
Alabama.....	7	100	83	138	286	450	416	436	448	237	200	124	86	3,006
Mississippi.....	16	330	358	510	938	1,551	1,303	1,428	1,558	1,188	898	598	456	11,094
Arkansas.....	12	227	225	291	570	909	898	964	1,028	901	639	445	365	7,462
Oklahoma.....	17	541	680	731	1,097	1,680	1,512	1,473	1,505	1,030	865	660	693	12,467
Texas.....	18	348	343	496	762	934	915	912	775	526	345	284	284	6,920
South Central.....	117	3,248	3,610	4,792	8,130	12,768	11,732	12,262	14,032	10,915	8,604	6,022	4,901	110,106
Montana.....	15	134	140	156	187	331	391	398	319	260	210	147	145	2,818
Idaho.....	23	1,197	1,348	1,484	1,540	2,016	1,875	1,795	1,701	1,410	1,333	1,183	1,167	18,049
Colorado.....	7	36	43	37	13	112	101	49	14	—	4	1	32	444
Utah.....	23	517	475	574	620	681	726	711	648	535	553	492	481	7,033
Mountain.....	72	1,913	2,031	2,281	2,396	3,185	3,147	2,998	2,726	2,244	2,135	1,853	1,856	1,28,765
Washington.....	11	133	117	211	205	570	614	584	458	363	353	265	253	4,166
Oregon.....	41	569	736	1,534	2,541	3,685	3,808	3,399	2,968	2,322	1,961	1,383	936	25,800
California.....	31	72	84	102	136	303	288	171	90	56	35	7	2	1,286
Pacific.....	63	794	917	1,847	2,924	4,498	4,670	4,154	3,514	2,741	2,329	1,695	1,191	31,234
UNITED STATES.....	1,670	42,423	44,511	55,203	68,107	97,888	100,980	90,177	85,872	68,001	59,173	46,414	49,632	808,381

• Either 3 or 4 plants reporting.

1/ Regional totals include production for some States not shown separately.

Production omitted for States in which less than 3 plants reported.

TABLE 12.—TOTAL AMERICAN CHEESE (made from whole milk) PRODUCED MONTHLY, BY STATES, 1948

State	Number plants	January 1000 lb.	February 1000 lb.	March 1000 lb.	April 1000 lb.	May 1000 lb.	June 1000 lb.	July 1000 lb.	August 1000 lb.	September 1000 lb.	October 1000 lb.	November 1000 lb.	December 1000 lb.	Total 1948 1000 lb.
Vermont.....	6	52	53	72	190	237	314	211	79	64	57	41	39	1,409
New England.....	7	53	54	74	192	239	316	213	81	65	58	42	40	1,427
New York.....	103	245	166	766	3,514	5,445	7,272	5,256	3,969	2,123	900	392	562	30,630
Pennsylvania.....	11	15	16	33	61	125	154	111	94	79	55	33	32	808
Middle Atlantic.....	114	260	182	819	3,575	5,570	7,426	5,367	4,053	2,202	955	425	594	31,438
Ohio.....	18	923	1,079	676	1,309	2,855	2,666	2,329	2,391	1,855	1,654	1,194	1,238	10,159
Indiana.....	27	1,577	1,419	2,086	2,832	4,598	4,287	4,073	4,284	4,429	3,486	2,429	2,530	37,391
Illinois.....	88	3,026	3,163	3,808	4,797	7,644	7,264	6,507	5,932	4,614	3,439	2,781	3,097	56,462
Michigan.....	36	1,162	1,201	1,636	1,921	2,729	3,121	2,889	2,447	2,001	1,604	1,249	1,297	23,047
Wisconsin.....	1,026	24,563	25,273	31,219	33,715	44,347	47,399	39,883	35,249	28,760	26,825	22,910	25,857	386,020
East North Central.....	1,195	31,251	32,555	39,385	44,634	62,173	64,747	59,381	50,313	40,710	37,398	30,565	34,019	523,109
Minnesota.....	59	3,714	3,939	4,461	3,996	5,805	5,799	5,062	4,981	3,671	3,181	2,942	4,124	51,635
Iowa.....	30	593	598	689	730	1,000	1,021	888	763	623	623	532	647	8,707
Missouri.....	47	2,051	1,960	2,467	3,853	6,303	6,303	7,053	7,441	6,495	5,335	3,650	3,385	56,330
South Dakota.....	64	66	66	89	92	171	151	124	111	82	58	50	83	1,141
Nebraska.....	21	67	97	97	97	193	190	66	69	11	11	9	8	853
Kansas.....	25	564	561	578	690	1,092	805	850	952	676	522	483	712	8,525
West North Central.....	169	7,007	7,191	8,361	9,458	14,598	14,229	14,043	14,317	11,558	9,728	7,665	9,016	127,191
South Atlantic.....	6	61	45	49	99	210	263	294	304	271	251	151	128	1,126
Kentucky.....	18	550	553	758	1,403	2,596	2,599	2,621	3,471	2,927	2,559	1,755	1,281	23,033
Tennessee.....	27	1,352	1,368	1,862	3,084	4,842	4,128	4,426	5,242	4,124	3,098	2,182	1,736	37,004
Alabama.....	7	100	85	138	286	450	416	438	448	237	200	124	86	3,006
Mississippi.....	16	330	358	510	938	1,551	1,303	1,428	1,558	1,168	898	596	496	11,094
Arkansas.....	12	227	225	291	570	909	898	964	1,028	901	639	445	395	7,462
Oklahoma.....	17	541	680	731	1,097	1,680	1,512	1,473	1,505	1,030	865	660	693	12,467
Texas.....	18	345	343	496	762	914	915	912	775	526	345	280	284	6,920
South Central.....	117	3,248	3,610	4,792	8,130	12,768	11,732	12,262	14,032	10,915	8,604	6,022	4,901	110,016
Montana.....	15	134	140	156	187	331	391	398	319	260	210	147	145	2,818
Idaho.....	23	1,242	1,405	1,618	1,668	2,045	1,956	1,882	1,761	1,523	1,458	1,323	1,247	19,148
Colorado.....	7	38	43	37	13	112	101	49	14	—	4	1	32	444
Utah.....	23	517	475	574	620	681	726	711	649	541	556	492	482	7,024
Mountain.....	73	1,960	2,092	2,418	2,536	3,241	3,268	3,123	2,838	2,370	2,263	1,993	1,944	17,906
Washington.....	11	140	124	220	252	580	624	592	470	372	362	272	260	4,268
Oregon.....	41	618	761	1,565	2,968	3,959	3,808	3,399	2,966	2,322	1,990	1,383	936	25,970
California.....	16	216	228	290	377	513	489	458	328	292	305	317	304	4,117
Pacific.....	68	974	1,113	2,073	3,197	4,749	4,921	4,449	3,764	2,986	2,657	1,972	1,500	34,395
UNITED STATES.....	1,749	44,814	46,822	57,991	71,821	103,948	106,902	95,132	89,712	71,077	61,914	48,833	52,142	850,708

* Either 3 or 4 plants reporting.
 1/ Regional totals include production for some States not shown separately.
 Production omitted for States in which less than 3 plants reported.

TABLE 13-TOTAL CHEESE (excluding full-skim American and Cottage) PRODUCED MONTHLY, BY STATES, 1948

State	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
Vermont.....	10	233	227	402	659	444	424	285	160	137	138	150	169	3,398
Massachusetts.....	8	190	180	292	195	227	257	142	142	156	155	191	251	2,378
Connecticut.....	•	11	10	14	14	16	17	13	13	11	15	22	21	174
New England.....	22	437	420	709	877	672	723	451	322	314	320	370	457	17,672
New York.....	152	3,624	3,656	5,289	6,866	9,285	10,427	8,233	7,362	5,445	4,380	3,976	4,492	73,405
New Jersey.....	5	83	76	131	87	77	80	77	65	83	109	121	147	1,136
Pennsylvania.....	29	890	774	999	887	1,041	1,054	910	895	897	893	820	859	10,919
Middle Atlantic.....	186	4,597	4,506	6,419	7,840	10,403	11,961	9,220	8,322	6,395	5,382	4,917	5,498	85,460
Ohio.....	50	2,045	2,022	1,740	2,835	4,648	4,300	3,722	3,844	3,377	3,266	2,651	2,548	36,998
Indiana.....	27	1,628	1,669	2,121	2,842	4,621	4,297	4,221	4,355	3,464	3,454	2,585	2,585	37,804
Illinois.....	123	4,637	4,684	5,697	6,401	9,581	9,276	8,221	7,663	6,158	5,591	4,514	4,591	77,704
Michigan.....	43	1,226	1,257	1,722	2,019	2,878	3,293	2,738	2,648	2,079	1,795	1,329	1,380	24,264
Wisconsin.....	1,353	33,275	33,669	41,107	44,540	57,842	60,074	49,118	41,617	37,052	35,395	30,941	34,674	502,104
East North Central.....	1,596	42,811	43,701	52,387	58,727	73,570	81,245	68,077	62,027	52,212	50,101	41,921	46,178	678,952
Minnesota.....	61	4,003	4,176	4,715	4,204	6,071	6,020	5,207	5,077	3,765	3,294	3,104	4,425	94,061
Iowa.....	32	650	633	735	770	1,054	1,076	943	808	663	662	562	698	9,234
Missouri.....	49	2,056	1,964	2,471	3,857	6,340	6,306	7,056	7,444	6,499	5,339	3,655	3,391	56,378
South Dakota.....	•	64	66	89	92	171	151	124	111	82	58	50	83	1,141
Nebraska.....	•	21	67	98	97	194	150	66	69	11	10	8	65	856
Kansas.....	26	564	561	578	690	1,163	960	956	1,015	676	522	483	712	8,880
West North Central.....	176	7,338	7,467	8,686	9,710	14,993	14,663	14,352	14,524	11,696	9,865	7,862	9,374	130,550
South Atlantic.....	6	62	47	51	100	211	261	295	305	273	252	152	129	1,214
Kentucky.....	18	550	553	758	1,403	2,596	2,559	2,621	3,471	2,927	2,559	1,755	1,281	23,033
Tennessee.....	27	1,468	1,591	2,186	3,379	4,954	4,425	4,595	5,436	4,355	3,377	2,410	1,915	40,991
Alabama.....	7	100	83	138	286	450	416	438	448	237	200	124	86	3,006
Mississippi.....	17	330	358	535	944	1,559	1,310	1,434	1,563	1,173	901	598	457	11,312
Arkansas.....	12	227	225	291	570	909	898	984	1,028	901	639	445	365	7,462
Louisiana.....	•	19	20	34	39	39	34	33	33	26	20	17	18	332
Oklahoma.....	17	546	684	731	1,102	1,680	1,517	1,473	1,511	1,048	879	688	707	12,566
Texas.....	20	491	507	720	1,009	1,159	1,131	1,080	989	685	579	503	364	9,217
South Central.....	121	3,731	4,021	5,373	6,732	13,346	12,250	12,638	14,479	11,352	9,154	6,540	5,193	106,849
Montana.....	15	134	140	156	187	331	391	398	319	260	210	147	145	2,818
Idaho.....	30	1,512	1,663	1,905	1,964	2,395	2,395	2,305	2,173	1,825	1,660	1,483	1,403	22,686
Wyoming.....	•	100	96	111	123	149	184	176	159	136	118	103	102	1,557
Colorado.....	12	66	60	101	138	208	208	162	76	58	41	49	92	1,259
Arizona.....	•	66	67	78	67	75	78	66	38	33	32	46	56	701
Utah.....	23	912	877	944	1,025	1,134	1,155	1,079	978	822	874	428	554	11,485
Mountain.....	89	2,195	2,907	3,398	3,516	4,319	4,460	4,233	3,774	3,141	2,936	2,657	2,662	140,688
Washington.....	15	345	353	511	566	912	869	660	549	598	471	524	456	6,624
Oregon.....	43	624	773	1,607	2,842	3,742	3,692	3,479	3,051	2,375	2,036	1,416	953	26,370
California.....	33	852	847	1,035	1,044	1,171	1,098	824	714	643	666	416	713	10,320
Pacific.....	97	1,621	1,973	3,153	4,242	5,845	5,659	4,963	4,294	3,616	3,173	2,653	2,122	43,714
UNITED STATES.....	2,293	63,592	65,042	80,076	93,744	129,359	131,459	114,219	106,047	86,999	81,203	67,072	71,613	1,094,425

• Either 3 or 4 plants reporting.

1/ Regional totals include production for some States not shown separately.

Production omitted for States in which less than 3 plants reported.

TABLE 14—COTTAGE CHEESE CURD PRODUCED MONTHLY, BY STATES, 1948 1/

State and Division	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
		1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.
New Hampshire.....	0	2	2	2	3	4	4	4	4	2	2	3	2	34
Vermont.....	9	343	314	571	715	991	1,293	973	782	797	669	395	424	8,267
Massachusetts.....	9	1	1	20	4	4	4	17	14	11	4	33	49	142
Connecticut.....	5	31	48	20	10	12	12	12	11	11	10	10	9	106
New England.....	21	377	365	593	732	1,011	1,313	1,006	811	821	685	464	556	7,8734
New York.....	186	2,583	3,172	4,051	4,200	5,275	5,487	4,753	4,236	3,446	3,056	2,779	2,738	45,776
New Jersey.....	8	11	13	17	17	20	15	15	16	10	10	8	6	158
Pennsylvania.....	117	724	918	1,156	1,164	1,562	1,597	1,265	1,204	1,038	883	778	799	13,088
Middle Atlantic.....	311	3,318	4,103	5,224	5,381	6,857	7,059	6,033	5,456	4,494	3,949	3,565	3,543	58,982
Ohio.....	247	1,480	1,688	1,913	1,862	2,059	2,045	2,008	1,786	1,669	1,752	1,731	1,664	21,657
Indiana.....	66	582	637	705	667	656	637	648	537	599	603	640	562	7,473
Illinois.....	105	922	1,047	1,185	1,172	1,206	1,215	1,217	1,090	1,123	1,105	1,153	1,131	13,606
Michigan.....	106	1,340	1,517	1,593	1,550	1,624	1,652	1,645	1,569	1,486	1,506	1,501	1,367	18,350
Wisconsin.....	134	1,216	1,402	1,463	1,434	1,452	1,597	1,617	1,527	1,566	1,417	1,315	1,262	17,194
East North Central.....	658	5,560	6,291	6,865	6,685	6,997	7,146	7,035	6,509	6,443	6,423	6,340	5,966	78,280
Minnesota.....	22	506	499	678	528	529	463	480	466	473	493	494	463	6,072
Iowa.....	53	332	362	397	397	376	362	394	365	373	414	396	398	4,586
Missouri.....	55	538	622	711	642	644	652	593	577	596	562	592	540	7,289
North Dakota.....	0	10	10	12	12	19	22	18	12	9	11	8	8	151
South Dakota.....	11	14	17	24	34	34	31	29	23	14	13	14	14	255
Nebraska.....	28	220	213	248	268	254	249	263	188	184	166	168	175	2,596
Kansas.....	58	484	518	596	575	509	523	490	538	503	486	457	402	6,101
West North Central.....	210	2,104	2,261	2,666	2,456	2,365	2,322	2,267	2,169	2,152	2,165	2,123	2,000	27,090
Maryland.....	7	176	255	251	228	233	207	217	180	175	178	179	168	2,447
Virginia.....	13	81	78	81	85	116	115	110	106	94	101	79	69	1,115
West Virginia.....	29	179	168	199	220	235	224	205	177	153	176	178	159	2,273
North Carolina.....	8	38	66	90	68	61	75	69	58	85	127	45	134	916
Georgia.....	0	2	2	6	9	8	9	10	10	5	8	6	6	85
Florida.....	6	35	32	41	36	58	53	62	54	35	23	43	55	521
South Atlantic.....	69	511	601	668	669	742	717	710	617	584	647	560	622	7,7648
Kentucky.....	19	269	313	416	349	403	379	354	303	274	281	323	292	3,956
Tennessee.....	20	71	89	125	115	119	123	132	113	103	83	79	79	1,231
Alabama.....	0	10	10	13	12	15	18	17	18	18	16	16	15	178
Mississippi.....	0	3	1	1	1	1	-	-	-	-	1	1	-	9
Arkansas.....	5	34	31	53	41	42	49	53	61	60	63	64	42	593
Oklahoma.....	29	159	151	191	202	206	208	189	186	198	193	192	171	2,246
Texas.....	20	114	129	143	151	237	226	207	208	164	143	112	128	1,964
South Central.....	102	696	778	1,018	933	1,098	1,068	1,033	966	883	834	840	775	11,0921
Montana.....	14	37	46	54	62	58	55	67	52	66	73	67	62	699
Idaho.....	14	43	47	47	49	52	60	59	52	48	48	48	42	597
Wyoming.....	6	18	15	20	21	22	19	23	21	17	18	17	20	231
Colorado.....	38	196	197	218	201	221	206	201	215	203	202	187	185	2,432
Arizona.....	0	87	90	110	111	104	97	93	90	89	92	80	78	1,121
Utah.....	11	190	144	153	199	169	168	171	175	161	152	146	138	1,886
Nevada.....	0	8	9	9	9	9	10	10	11	8	8	8	7	106
Mountain.....	92	546	557	621	624	649	685	635	632	600	598	562	544	7,7193
Washington.....	27	735	737	797	800	843	849	825	810	727	763	691	642	9,219
Oregon.....	19	315	284	320	342	320	342	335	306	266	240	270	249	3,616
California.....	73	3,443	3,392	2,764	3,703	3,638	3,789	3,770	3,815	3,791	3,826	3,351	3,521	43,951
Pacific.....	119	4,493	4,413	4,881	4,872	5,001	4,980	4,890	4,931	4,784	4,839	4,312	4,412	56,798
UNITED STATES.....	1,582	17,605	19,369	22,536	22,352	24,720	25,230	23,609	22,090	20,761	20,130	18,766	18,438	255,606

* Either 1 or 4 plants reporting.

1/ National total include production for some States not shown separately.
Production omitted for States in which less than 3 plants reported.

TABLE 15-COTTAGE CHEESE, CREAMED, PRODUCED MONTHLY, BY STATES, 1946 1/

State and Division	Number Plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1946
New Hampshire.....	•	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.
Vermont.....	7	278	313	368	443	512	675	638	536	456	476	368	443	45
Massachusetts.....	6	7	7	8	23	28	31	48	42	28	27	28	30	5,628
Connecticut.....	8	45	52	38	29	35	34	36	33	28	21	26	28	308
New England.....	26	333	378	425	553	660	764	747	632	535	553	447	594	1,661
New York.....	39	1,624	2,031	2,165	1,437	1,840	1,939	2,002	1,814	1,661	1,757	1,801	1,642	22,103
New Jersey.....	5	37	95	102	77	85	95	81	65	132	112	115	105	1,092
Pennsylvania.....	60	381	437	576	524	593	585	565	539	448	334	385	354	5,785
Middle Atlantic.....	104	2,042	2,503	2,843	2,143	2,524	2,609	2,648	2,416	2,196	2,263	2,279	2,099	28,980
Ohio.....	191	1,725	2,019	2,413	2,155	2,223	2,191	2,156	1,877	1,754	1,867	1,823	1,839	24,042
Indiana.....	64	471	488	561	573	588	599	603	511	522	582	574	541	5,613
Illinois.....	97	1,198	1,256	1,433	1,393	1,112	1,113	1,129	1,089	1,033	1,014	986	966	13,662
Michigan.....	147	1,713	1,861	2,010	1,996	2,090	2,139	2,113	1,972	1,854	1,897	1,888	1,866	23,373
Wisconsin.....	104	671	777	905	743	835	893	920	883	831	916	774	787	9,763
East North Central.....	603	5,778	6,401	7,322	6,860	6,788	6,931	6,921	6,272	5,974	6,128	6,045	6,033	77,453
Minnesota.....	18	545	564	515	641	681	681	660	621	594	609	576	562	7,271
Iowa.....	309	296	296	342	346	392	392	412	343	349	368	361	333	4,243
Missouri.....	32	144	531	637	587	566	583	551	511	498	509	480	479	6,388
North Dakota.....	•	13	15	17	16	19	23	17	14	12	13	14	11	184
South Dakota.....	10	31	33	43	53	54	51	50	45	38	281	34	35	505
Nebraska.....	25	240	250	285	324	302	292	318	283	261	281	235	254	3,323
Kansas.....	31	274	283	333	311	311	326	358	336	338	330	301	281	3,790
West North Central.....	161	1,696	1,972	2,170	2,256	2,324	2,348	2,366	2,154	2,090	2,148	2,003	1,975	25,702
Maryland.....	5	247	365	364	316	326	285	296	242	245	246	240	224	3,396
West Virginia.....	30	220	208	276	276	293	279	257	227	203	207	228	204	2,853
North Carolina.....	18	35	35	47	39	36	44	41	30	52	78	28	81	589
Georgia.....	•	-	-	-	4	4	5	6	5	5	5	4	4	142
Florida.....	9	40	34	50	46	77	74	99	85	69	50	78	94	800
South Atlantic.....	55	537	655	726	720	786	742	757	644	636	639	625	656	7,815
Kentucky.....	14	207	236	287	221	218	223	225	197	204	187	240	236	2,671
Tennessee.....	9	34	41	50	41	43	51	55	52	47	42	39	40	535
Oklahoma.....	25	253	234	300	317	302	346	288	270	294	303	282	260	3,489
Texas.....	34	227	297	339	363	392	379	374	374	353	308	286	271	3,933
South Central.....	90	849	985	1,218	1,159	1,196	1,194	1,204	1,142	1,088	1,020	1,026	960	13,021
Montana.....	12	58	66	78	79	80	82	86	83	62	83	76	68	921
Idaho.....	13	58	59	67	76	76	79	79	80	66	65	63	57	828
Colorado.....	25	159	156	171	147	153	153	150	146	127	115	111	97	1,667
Arizona.....	•	128	134	161	165	152	139	142	131	132	136	117	114	1,661
Utah.....	11	211	204	214	239	238	250	250	243	222	214	206	198	2,660
Nevada.....	10	10	11	12	11	12	13	14	14	11	10	10	10	118
Mountain.....	71	638	648	721	720	719	736	741	712	655	639	599	565	7,809
Washington.....	29	1,213	1,142	1,394	1,375	1,366	944	1,398	1,372	1,233	1,243	1,210	1,097	14,947
Oregon.....	22	117	128	167	143	192	190	201	171	153	142	136	134	1,913
California.....	77	5,248	4,915	5,569	5,348	5,469	5,432	5,442	5,536	5,496	5,407	4,861	4,845	63,326
Pacific.....	128	6,608	6,185	7,130	6,904	7,027	6,566	7,041	7,073	6,843	6,792	6,207	5,880	80,256
UNITED STATES.....	1,238	18,661	19,767	22,555	21,590	22,026	21,890	22,425	21,045	20,007	20,182	19,271	18,762	248,221

• Either 3 or 4 plants reporting.

1/ Regional totals include production for some States not shown separately.

Production omitted for States in which less than 3 plants reported.

TABLE 16-PLAIN CONDENSED WHOLE MILK -- BULK GOODS -- (unweasteed) PRODUCED MONTHLY, BY STATES, 1948

State	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
New York.....	19	1,160	1,423	2,877	3,222	3,340	4,122	6,131	5,413	4,464	3,238	1,289	1,142	37,821
Pennsylvania.....	15	640	867	1,777	2,658	2,613	2,803	2,474	2,351	1,956	1,238	592	894	27,813
Ohio.....	13	1,807	1,891	1,449	1,244	1,580	1,642	1,379	1,318	1,187	449	408	520	14,884
Indiana.....	10	1,758	1,838	1,915	1,695	1,904	2,072	1,924	1,934	1,763	1,237	1,313	1,144	20,497
Illinois.....	6	118	253	358	508	174	55	357	369	467	305	305	179	3,448
Michigan.....	6	773	450	1,422	1,657	1,964	2,200	1,091	618	415	770	726	709	12,815
Wisconsin.....	15	3,825	5,004	5,702	6,220	5,179	5,947	5,815	5,293	3,448	2,356	1,796	2,305	53,840
Iowa.....	6	842	866	1,093	1,495	2,093	2,360	2,373	2,756	2,053	1,199	357	347	17,804
Missouri.....	6	1	5	-	-	83	65	-	-	-	1	1	-	156
Nebraska.....	6	93	145	218	296	268	328	387	326	253	172	169	159	2,814
Washington.....	6	139	147	321	449	631	587	588	465	406	257	78	100	4,168
California.....	10	1,019	743	440	508	220	187	230	296	473	935	667	555	6,273
All Other States.....	19	837	967	2,155	2,706	3,986	4,329	4,221	3,543	2,383	1,183	651	840	27,801
UNITED STATES.....	134	13,018	14,607	19,691	22,686	24,602	26,734	26,978	24,680	19,668	13,340	8,353	8,896	223,253

* Either 3 or 4 plants reporting.

TABLE 17-PLAIN CONDENSED SKIM MILK -- BULK GOODS -- (unweasteed) PRODUCED MONTHLY, BY STATES, 1948

State	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
Vermont.....	5	227	251	459	543	599	715	984	888	782	585	494	549	7,076
New York.....	39	2,403	3,856	6,227	6,997	7,741	9,859	10,256	6,896	5,965	3,069	3,952	4,952	72,273
Pennsylvania.....	32	465	811	1,882	2,417	2,974	3,484	3,530	3,293	2,287	774	291	517	22,725
Ohio.....	39	1,247	1,027	1,450	2,274	2,788	2,605	2,977	1,920	1,432	1,352	1,882	1,559	22,513
Indiana.....	19	1,651	1,967	1,654	1,454	1,447	1,447	1,447	1,598	1,377	1,559	1,483	1,134	17,943
Illinois.....	21	1,221	1,669	1,674	1,884	1,847	2,290	2,383	2,335	2,335	1,571	1,450	1,482	22,513
Michigan.....	25	2,348	2,999	2,282	1,940	2,316	2,633	3,001	3,063	2,439	1,671	1,471	1,628	28,177
Wisconsin.....	44	7,658	8,318	8,649	5,149	6,706	7,839	7,522	6,876	7,157	7,242	7,686	7,610	88,412
Minnesota.....	12	2,610	2,194	1,749	1,198	1,130	1,387	1,436	1,242	2,006	1,039	848	709	17,548
Iowa.....	10	778	799	1,131	1,117	1,209	1,203	1,407	1,308	852	738	649	839	12,030
Missouri.....	15	1,350	1,075	1,293	1,392	1,824	1,940	1,913	2,537	2,548	2,437	2,875	1,988	23,122
Nebraska.....	6	2	9	19	60	32	79	117	127	70	37	28	22	599
Kansas.....	12	2,421	2,410	2,425	2,017	2,334	2,141	2,278	3,225	3,338	3,116	2,663	2,635	31,003
Maryland.....	6	16	31	46	33	289	270	147	98	53	55	4	13	1,095
Virginia.....	10	730	740	1,122	1,609	2,106	2,458	2,852	2,635	2,777	2,371	1,664	1,361	22,423
North Carolina.....	6	2	-	5	-	-	-	-	114	2	1	1	3	128
Kentucky.....	7	27	44	91	166	187	216	266	189	169	141	118	91	1,705
Tennessee.....	7	689	632	872	1,058	1,630	1,694	1,841	2,097	2,048	1,459	1,308	1,247	16,811
Mississippi.....	212	212	210	299	447	657	709	631	649	648	489	403	363	5,717
Arkansas.....	6	-	-	-	-	57	63	68	108	53	55	83	76	563
Oklahoma.....	8	391	359	444	451	399	277	292	357	423	398	366	374	4,520
Idaho.....	15	567	530	714	1,013	974	916	1,015	648	923	858	725	583	9,666
Utah.....	6	33	82	131	77	88	72	94	89	66	59	55	55	901
Washington.....	5	27	27	35	53	93	111	74	38	34	92	17	25	604
California.....	24	3,716	5,429	4,735	4,934	5,135	4,921	4,857	4,672	4,463	4,281	4,254	4,656	56,033
All Other States.....	19	284	277	454	634	649	704	777	856	960	928	773	995	8,291
UNITED STATES.....	364	31,153	35,646	39,822	38,917	44,876	49,993	52,235	48,238	45,226	36,375	35,976	35,436	493,893

* Either 3 or 4 plants reporting.

TABLE 16-REFINERED WHOLE MILK -- (unseasoned) PRODUCED MONTHLY, BY STATES, 1948

State and Division	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
New York.....	5	671	1,563	7,859	9,953	11,411	16,316	10,418	6,762	3,353	1,604	585	512	70,987
Pennsylvania.....	8	816	1,637	4,082	6,992	10,721	16,102	7,161	4,461	2,577	1,801	1,095	1,050	52,408
Middle Atlantic.....		1,487	3,200	11,921	16,945	22,132	26,418	17,579	11,226	5,530	3,405	1,680	1,512	123,499
Ohio.....	13	13,603	14,563	22,310	28,811	46,985	45,357	39,606	38,588	28,463	24,243	14,910	15,526	332,965
Indiana.....	5	8,122	6,361	18,724	9,652	17,119	16,453	15,475	15,074	10,685	9,442	5,754	6,248	127,107
Illinois.....	10	12,014	13,713	18,586	19,498	26,003	24,220	17,624	13,805	10,978	11,682	9,268	11,005	186,196
Michigan.....	7	10,022	10,685	15,784	17,873	27,207	28,829	20,671	18,600	16,113	11,113	5,517	3,853	186,267
Wisconsin.....	32	60,724	69,021	90,524	96,807	115,648	114,695	89,394	78,440	54,568	41,315	21,237	32,718	875,123
West North Central.....	67	102,485	114,343	155,740	172,641	232,962	229,554	182,168	164,507	120,807	97,795	66,686	69,370	1,709,658
Minnesota.....	•	2,567	2,185	2,762	4,093	4,364	4,959	2,954	2,193	1,887	2,043	1,633	2,160	33,820
Iowa.....	•	3,304	3,507	4,097	5,093	5,587	5,707	3,985	2,411	1,963	2,172	2,258	2,760	41,644
Missouri.....	6	7,635	8,814	12,820	19,441	28,664	25,026	25,300	26,934	23,129	15,251	8,896	6,116	208,026
Kansas.....	•	3,447	3,702	4,570	5,885	8,217	7,540	7,339	7,215	5,533	4,785	3,291	3,305	64,829
West North Central.....	15	16,953	18,208	24,249	33,512	46,852	43,232	39,578	36,753	32,512	24,251	16,078	14,341	348,539
South Atlantic.....	6	5,962	5,554	7,663	12,772	20,642	21,222	20,678	22,540	19,503	15,445	8,808	5,771	1,166,560
Kentucky.....	•	5,654	6,386	9,590	15,426	22,680	22,532	23,530	24,720	19,539	15,230	10,313	8,264	183,424
Tennessee.....	•	4,045	4,073	6,969	12,378	18,572	16,397	17,479	19,260	15,736	11,321	5,890	4,018	136,198
Mississippi.....	•	1,322	1,645	2,356	4,446	5,026	5,466	5,947	5,834	4,845	3,690	2,243	1,773	44,593
Texas.....	•	1,102	1,087	1,813	3,092	3,455	3,438	3,689	2,710	2,661	2,591	1,986	1,343	28,957
South Central.....	15	13,356	14,413	22,359	38,015	53,694	51,608	54,416	56,366	46,352	36,187	23,199	18,143	1,428,108
Utah.....	•	5,572	5,365	6,023	6,665	7,967	7,606	6,631	5,631	4,851	4,901	4,691	4,982	70,885
Mountain.....	8	12,933	12,076	14,218	15,924	19,298	18,770	16,665	14,445	13,019	12,254	11,545	11,847	1,172,394
Washington.....	•	4,255	4,887	6,380	8,513	13,048	12,307	11,362	9,941	8,096	6,428	3,581	3,384	92,182
California.....	11	18,371	20,168	27,361	32,012	36,644	35,677	34,178	30,173	26,924	24,728	18,988	18,251	324,007
Pacific.....	17	23,605	26,006	35,130	42,554	51,921	50,060	48,624	41,443	35,850	32,173	23,418	22,315	1,033,559
UNITED STATES.....	136	176,981	193,800	271,340	332,363	447,501	440,864	380,308	349,280	273,973	221,710	151,414	143,359	3,382,893

• Either 3 or 4 plants reporting.

1/ Regional totals include production for some States not shown separately.
Production omitted for States in which less than 3 plants reported.

TABLE 19-DRIED WHOLE MILK PRODUCED MONTHLY, BY STATES, 1948

State	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
New York.....	11	606	759	1,094	1,293	2,201	2,117	2,809	1,373	2,094	1,413	152	7	15,918
Ohio.....	•	772	510	937	1,001	1,599	1,347	1,443	1,167	1,182	953	663	751	12,325
Indiana.....	6	10	47	113	245	820	751	579	370	214	172	332	294	3,947
Michigan.....	10	969	826	914	757	917	888	1,562	910	891	707	744	698	10,843
Wisconsin.....	31	5,237	6,191	5,265	6,602	8,136	7,703	7,708	7,773	5,173	5,059	4,001	4,488	73,336
Minnesota.....	8	2,555	2,423	2,653	3,080	3,949	3,589	3,356	3,407	2,507	3,059	1,784	2,401	34,763
California.....	6	1,522	1,068	1,387	1,741	1,984	1,738	1,474	1,635	439	159	115	316	13,578
All Other States.....	11	400	350	70	178	642	1,694	414	540	429	251	171	198	5,377
UNITED STATES.....	87	12,071	12,174	12,433	14,857	20,348	19,827	19,345	17,175	12,929	11,773	7,962	9,153	170,087

• Either 3 or 4 plants reporting.

TABLE 20-SPRAY PROCESS NONFAT DRY MILK SOLIDS (for human consumption) PRODUCED MONTHLY, BY STATES, 1948

State	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
Vermont.....	•	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.
New York.....	15	2	-	246	468	927	942	839	648	554	491	385	521	5,963
Pennsylvania.....	5	895	810	1,215	2,367	3,848	4,870	2,531	2,552	1,928	2,144	2,034	2,883	28,077
Ohio.....	9	198	226	307	539	780	822	369	367	371	132	250	231	4,592
Indiana.....	8	641	740	1,230	1,519	2,078	2,129	2,237	2,076	1,710	1,565	1,046	1,054	18,045
Michigan.....	12	544	564	775	994	1,560	1,710	1,500	1,548	1,183	1,215	564	1,042	13,199
Wisconsin.....	41	508	715	885	1,139	1,756	1,968	1,312	1,132	910	1,417	1,215	1,675	14,632
Minnesota.....	34	8,567	8,342	10,686	11,746	15,092	15,438	11,118	7,929	6,745	7,345	7,681	11,440	122,129
Iowa.....	•	8,411	8,457	10,298	10,679	12,690	12,499	9,507	6,875	5,296	5,437	7,244	9,535	106,928
Missouri.....	•	217	288	419	473	654	652	448	334	191	193	195	424	4,468
Kansas.....	6	1,147	1,164	1,502	2,129	2,904	2,629	3,009	2,416	1,855	1,852	1,460	1,640	23,707
Virginia.....	•	163	151	210	683	1,259	917	780	598	250	156	145	420	5,732
Idaho.....	7	-	-	-	19	240	350	256	438	418	196	-	239	2,356
Utah.....	6	1,916	2,098	2,562	2,716	3,349	2,948	2,830	2,675	2,411	2,396	2,264	2,300	30,465
Washington.....	•	255	275	415	374	505	483	452	354	299	317	241	339	4,303
Oregon.....	•	241	296	291	597	837	816	683	598	398	272	120	120	5,399
California.....	15	87	125	291	511	924	756	753	325	210	180	121	42	6,322
All Other States.....	13	1,204	1,799	2,880	3,860	3,939	3,702	3,445	2,446	1,811	1,782	2,402	2,496	31,746
UNITED STATES.....	191	454	529	609	1,056	1,585	1,375	1,265	1,075	512	479	540	700	10,179
• Either 3 or 4 plants reporting.		25,450	26,579	34,951	41,869	54,907	55,006	43,334	34,366	27,052	27,569	27,847	37,101	436,071

TABLE 21-ROLLER PROCESS NONFAT DRY MILK SOLIDS (for human consumption) PRODUCED MONTHLY, BY STATES, 1948

State	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
Vermont.....	•	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.
New York.....	37	-	-	-	49	159	446	107	161	122	76	21	308	1,449
Pennsylvania.....	11	352	365	1,310	2,304	4,987	5,644	2,465	1,363	864	1,052	355	607	21,868
Ohio.....	17	46	47	107	465	800	741	355	312	164	100	140	62	3,239
Indiana.....	10	333	339	653	1,201	1,817	1,590	1,371	1,233	1,074	860	337	364	11,192
Illinois.....	12	592	592	914	1,224	1,665	1,819	1,686	1,604	1,258	924	553	601	13,682
Michigan.....	23	271	302	394	616	1,011	975	762	641	363	193	99	290	5,917
Wisconsin.....	61	818	820	1,556	2,124	3,402	3,571	2,235	1,467	1,066	794	822	1,553	20,207
Minnesota.....	59	4,819	4,739	7,362	9,140	12,100	12,594	8,747	5,599	3,420	3,200	3,268	4,533	79,431
Iowa.....	7	4,054	4,904	6,312	6,264	8,449	7,790	4,782	2,878	2,333	2,345	2,608	3,380	56,069
Missouri.....	8	417	444	521	548	684	640	322	416	203	285	262	160	5,406
Kansas.....	•	299	269	262	640	977	559	553	697	581	565	381	438	6,263
Maryland.....	5	49	53	62	225	390	254	230	105	-	28	11	33	1,440
Kentucky.....	•	19	31	118	670	1,011	681	465	648	291	54	3	41	4,032
Mississippi.....	•	12	30	35	63	138	125	102	114	106	34	14	37	810
Washington.....	9	24	29	89	257	348	235	297	290	162	67	46	88	1,912
California.....	5	41	38	130	295	844	747	492	370	260	183	110	93	3,603
All Other States.....	12	270	254	634	872	856	678	601	451	212	195	253	188	5,464
UNITED STATES.....	288	187	220	273	370	359	555	444	332	262	211	143	123	3,479
• Either 3 or 4 plants reporting.		12,603	13,539	20,732	27,327	40,182	39,884	26,158	18,591	12,840	11,190	9,326	13,079	245,461

TABLE 22-ICE CREAM PRODUCED MONTHLY FOR WHOLESALE, BY STATES, 1948

State and Division	Number plants	January 1948	February 1948	March 1948	April 1948	May 1948	June 1948	July 1948	August 1948	September 1948	October 1948	November 1948	December 1948	Total 1948
Maine.....	14	146	131	232	242	247	301	104	377	301	203	153	153	2,890
New Hampshire.....	12	70	68	100	122	127	172	212	181	153	77	75	61	1,439
Vermont.....	6	57	71	89	103	112	132	152	157	145	69	75	61	1,294
Massachusetts.....	96	915	948	1,468	1,608	1,636	1,951	2,334	2,165	1,787	1,181	1,072	1,070	18,195
Rhode Island.....	34	207	191	305	318	347	437	565	498	384	220	211	211	3,914
Connecticut.....	43	324	325	495	569	617	786	931	816	654	437	444	365	6,746
New England.....	207	1,179	1,134	2,092	2,962	3,086	3,786	4,658	4,194	3,434	2,187	2,032	1,950	34,478
New York.....	290	2,422	2,407	3,732	4,474	4,792	6,017	6,602	5,880	4,796	2,918	2,937	2,862	49,899
New Jersey.....	37	477	510	845	922	922	1,159	1,369	1,223	987	518	433	272	9,542
Pennsylvania.....	274	3,567	3,495	4,940	5,174	5,637	7,559	7,559	6,739	5,995	3,953	4,011	3,816	61,506
Middle Atlantic.....	601	6,466	6,372	9,494	10,493	11,351	13,950	15,530	13,842	11,778	7,434	7,401	6,816	120,907
Ohio.....	260	1,704	1,802	2,530	2,801	3,067	3,662	3,925	3,519	2,991	1,878	1,957	1,783	31,619
Indiana.....	159	855	888	1,137	1,433	1,571	1,961	2,157	1,997	1,616	1,073	1,062	917	16,727
Illinois.....	214	1,754	1,901	2,422	2,879	3,249	3,777	4,213	3,853	3,141	1,893	1,944	1,845	32,551
Michigan.....	242	1,159	1,237	1,601	1,958	2,184	2,705	3,136	2,969	2,209	1,372	1,366	1,265	23,161
Wisconsin.....	162	741	744	962	1,130	1,257	1,640	1,865	1,731	1,365	903	890	766	14,014
East North Central.....	1,037	6,213	6,572	8,712	10,201	11,028	13,745	15,296	14,049	11,342	7,119	7,219	6,576	118,072
Minnesota.....	88	793	800	999	1,153	1,434	1,696	1,851	1,632	1,382	880	807	703	14,130
Iowa.....	126	604	605	797	961	1,077	1,237	1,401	1,264	1,042	640	625	571	10,824
Missouri.....	93	712	783	1,153	1,461	1,576	1,852	1,985	1,887	1,535	960	944	883	15,791
North Dakota.....	35	119	109	116	153	205	253	284	252	235	149	130	111	2,136
South Dakota.....	23	123	121	161	203	228	258	308	286	240	141	135	118	2,322
Nebraska.....	72	322	326	394	540	617	730	789	667	507	384	330	282	6,096
Kansas.....	83	287	321	391	539	572	671	698	650	565	342	271	258	6,096
West North Central.....	520	3,020	3,067	4,031	5,010	5,729	6,991	7,316	6,726	5,606	3,496	3,248	2,936	58,882
District of Columbia.....	11	385	401	571	572	572	699	772	616	588	391	426	401	6,394
Delaware.....	2	119	121	176	161	178	224	232	219	194	128	138	121	2,011
Maryland.....	29	442	441	700	764	787	935	1,011	839	777	536	435	457	9,780
Virginia.....	61	497	486	788	874	938	1,184	1,275	1,081	923	609	632	513	9,780
West Virginia.....	29	291	325	465	526	605	754	777	714	616	368	323	304	6,084
North Carolina.....	65	687	825	1,061	1,234	1,350	1,559	1,673	1,398	1,294	905	886	704	13,316
South Carolina.....	18	106	113	201	219	253	305	335	301	257	161	152	107	2,510
Georgia.....	34	299	349	495	598	691	784	771	750	621	448	353	309	6,468
Florida.....	48	587	721	902	716	763	770	757	720	689	604	641	615	8,545
South Atlantic.....	297	3,413	3,562	5,379	5,724	6,137	7,194	7,603	6,638	5,919	4,150	4,024	3,527	67,290
Kentucky.....	43	202	230	340	376	417	486	546	508	399	251	246	217	4,218
Tennessee.....	72	504	544	919	1,155	1,341	1,594	1,690	1,482	1,310	860	767	607	12,773
Alabama.....	43	268	328	545	616	733	813	809	733	633	454	382	300	6,614
Mississippi.....	47	138	153	269	320	378	434	449	408	356	207	207	169	3,548
Arkansas.....	22	112	101	162	258	302	339	373	317	290	206	148	164	2,772
Louisiana.....	31	263	319	504	615	709	780	786	724	602	442	368	328	6,440
Oklahoma.....	61	323	310	434	617	716	769	779	745	643	423	326	281	6,366
Texas.....	145	989	1,094	1,672	2,225	2,611	2,843	2,789	2,887	2,204	1,626	1,441	1,141	23,322
South Central.....	464	2,793	3,079	4,815	6,202	7,210	8,058	8,221	7,804	6,437	4,599	4,642	3,207	66,073
Montana.....	64	105	95	130	139	184	210	266	253	190	138	106	93	1,909
Idaho.....	28	104	91	129	130	176	227	231	212	151	123	88	76	1,738
Wyoming.....	18	34	36	46	51	59	65	77	70	63	46	40	40	627
Colorado.....	58	261	262	345	391	473	521	591	586	465	339	285	268	4,777
New Mexico.....	17	50	56	67	97	113	126	138	124	100	66	53	50	1,019
Arizona.....	10	127	135	116	185	220	205	182	161	169	125	104	83	1,832
Utah.....	28	155	148	181	194	229	264	283	261	239	158	130	106	2,448
Nevada.....	6	35	36	44	49	57	72	97	85	66	46	36	30	662
Mountain.....	229	871	859	1,058	1,236	1,511	1,690	1,865	1,772	1,422	1,090	842	746	14,922
Washington.....	88	413	392	544	551	643	862	835	709	638	462	446	356	6,811
Oregon.....	79	316	311	404	407	488	649	665	617	531	381	327	279	5,362
California.....	261	2,463	2,172	2,922	3,270	3,716	3,646	3,265	3,167	3,422	2,500	2,806	1,908	34,751
Pacific.....	428	3,192	2,815	3,627	3,928	4,407	5,157	5,419	4,893	4,591	3,343	2,949	2,543	46,924
UNITED STATES.....	3,783	27,763	28,140	39,798	45,756	50,459	60,271	65,888	59,918	50,569	33,308	31,397	28,321	521,548

* Less than 5 plants reporting.

TABLE 23—TOTAL ICE CREAM PRODUCED MONTHLY, BY STATES, 1948

State and Division	Number plants	January	February	March	April	May	June	July	August	September	October	November	December	Total 1948
		1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.	1000 gal.
Maine.....	64	147	132	237	249	258	318	446	443	311	211	156	157	3,065
New Hampshire.....	80	79	80	120	141	146	196	240	240	174	91	104	63	1,665
Vermont.....	27	73	75	95	109	117	155	196	161	149	71	80	64	1,348
Massachusetts.....	423	1,013	986	1,521	1,726	1,811	2,175	2,607	2,426	1,917	1,243	1,124	1,251	19,694
Rhode Island.....	95	212	199	333	345	380	480	614	537	431	231	245	221	4,208
Connecticut.....	184	329	341	513	602	664	827	1,025	904	733	470	435	416	7,205
New England.....	873	1,853	1,813	2,821	3,172	3,376	4,152	5,128	4,582	3,719	2,319	2,144	2,066	37,245
New York.....	2,311	2,736	2,715	4,213	5,051	5,408	6,793	7,449	6,637	5,412	3,290	3,316	3,254	56,274
New Jersey.....	1,126	518	558	859	927	1,020	1,282	1,511	1,336	1,089	637	505	348	10,590
Pennsylvania.....	3,163	3,763	3,653	5,199	5,472	6,093	7,213	8,036	7,192	6,368	4,245	4,100	3,908	65,359
Middle Atlantic.....	3,673	7,017	6,926	10,271	11,450	12,431	15,288	16,996	15,115	12,669	8,172	8,100	7,506	132,193
Ohio.....	1,172	1,837	1,951	2,724	3,033	3,344	4,027	4,349	3,905	3,289	2,078	2,135	1,958	34,630
Indiana.....	352	957	997	1,336	1,607	1,767	2,209	2,457	2,277	1,829	1,214	1,190	1,031	18,871
Illinois.....	996	1,920	2,072	2,657	3,100	3,339	4,292	4,756	4,345	3,476	2,117	2,160	2,041	36,475
Michigan.....	765	1,276	1,362	1,775	2,200	2,486	3,094	3,620	3,421	2,516	1,551	1,526	1,405	26,232
Wisconsin.....	577	854	864	1,122	1,325	1,498	1,958	2,245	2,085	1,656	1,077	1,051	904	16,639
East North Central.....	3,862	6,844	7,246	9,614	11,465	12,434	15,560	17,427	16,033	12,766	8,037	8,062	7,339	132,847
Minnesota.....	248	826	833	1,040	1,200	1,493	1,766	1,927	1,699	1,439	916	840	732	14,711
Iowa.....	378	659	660	871	1,059	1,200	1,398	1,597	1,443	1,182	721	692	634	12,109
Missouri.....	272	797	812	1,191	1,506	1,635	1,924	2,065	1,965	1,589	998	916	910	16,368
North Dakota.....	79	129	119	149	164	224	278	309	275	264	162	140	121	2,324
South Dakota.....	72	138	137	182	229	263	293	353	326	275	163	153	136	2,647
Nebraska.....	230	348	349	430	585	692	784	857	836	662	423	359	308	6,607
Kansas.....	207	311	311	457	611	700	822	866	812	688	442	370	314	6,746
West North Central.....	1,526	3,230	3,281	4,320	5,384	6,207	7,269	7,967	7,332	6,082	3,795	3,490	3,155	61,532
District of Columbia.....	34	393	411	583	584	585	714	783	628	599	401	437	413	6,531
Delaware.....	21	125	126	185	170	185	233	241	227	201	135	144	128	2,098
Maryland.....	90	464	464	729	792	817	973	1,048	878	807	558	568	542	10,496
Virginia.....	166	523	512	824	913	990	1,229	1,338	1,139	973	646	667	642	10,296
West Virginia.....	105	300	334	498	543	626	780	807	740	637	381	336	308	6,290
North Carolina.....	165	739	679	1,133	1,319	1,445	1,675	1,785	1,492	1,335	975	926	757	14,260
South Carolina.....	42	111	117	209	227	262	313	345	311	266	168	161	112	2,602
Georgia.....	63	303	353	500	603	698	793	780	759	629	454	359	314	6,595
Florida.....	81	628	765	951	829	812	818	801	764	731	640	684	657	9,080
South Atlantic.....	767	3,586	3,761	5,610	5,980	6,420	7,528	7,928	6,938	6,178	4,358	4,232	3,712	66,231
Kentucky.....	130	216	245	362	405	448	525	586	547	434	277	267	238	4,550
Tennessee.....	214	523	566	948	1,193	1,386	1,651	1,752	1,541	1,360	897	796	629	13,242
Alabama.....	113	274	339	562	616	758	841	841	761	666	471	393	311	6,843
Mississippi.....	144	145	165	286	341	403	467	489	393	393	289	222	183	3,832
Arkansas.....	70	116	105	173	274	322	366	397	343	313	219	155	169	2,952
Louisiana.....	43	271	329	521	633	729	801	804	795	619	453	378	336	6,617
Oklahoma.....	149	356	326	453	666	751	809	832	795	680	448	344	296	6,736
Texas.....	316	1,018	1,134	1,720	2,303	2,705	2,950	2,894	2,931	2,291	1,686	1,278	1,180	24,157
South Central.....	1,179	2,699	3,209	5,030	6,461	7,502	8,410	8,595	8,112	6,746	4,740	3,833	3,342	68,929
Montana.....	235	152	140	185	205	263	302	365	353	268	200	155	133	2,721
Idaho.....	138	124	111	156	197	210	260	278	245	184	143	102	89	2,058
Wyoming.....	140	41	44	55	82	73	80	97	87	74	55	46	46	760
Colorado.....	149	289	290	378	429	517	572	653	647	504	376	318	299	5,272
New Mexico.....	26	54	59	72	101	119	132	145	130	105	68	56	55	1,094
Arizona.....	32	132	140	122	192	228	215	193	192	177	131	109	87	1,918
Utah.....	105	177	175	211	227	264	301	325	298	263	199	150	124	2,714
Nevada.....	33	37	38	46	53	63	79	105	92	70	50	39	32	704
Mountain.....	738	1,006	997	1,825	1,486	1,737	1,941	2,161	2,044	1,645	1,222	974	863	17,241
Washington.....	497	470	447	623	632	734	866	946	828	731	531	461	414	7,823
Oregon.....	251	354	345	432	452	545	733	754	682	593	345	315	363	6,000
California.....	875	2,848	2,914	3,094	3,428	3,773	4,208	4,512	4,112	3,905	2,907	2,552	2,186	40,039
Pacific.....	1,623	3,672	3,616	4,151	4,512	5,052	5,927	6,212	5,622	5,229	3,868	3,396	2,915	53,862
UNITED STATES.....	14,241	30,107	30,539	43,042	49,840	55,159	66,095	72,444	65,988	55,234	36,511	34,231	30,900	570,060

TABLE 24-WHOLE MILK EQUIVALENT OF DAIRY PRODUCTS MANUFACTURED, BY STATES, 1948 1/

State and Division	Creamery Butter	Cheese		Evap. Milk (unsweetened) Case	Cond. Milk (unsweetened) Bulk	Sweetened Cond. Milk Case & Bulk	Dry Whole Milk 2/	Ice cream & other frozen products 3/	Other Milk 4/ Products	Total	Duplications	Net Total
		American	Other than American									
	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.
Maine	1,023	-	1,079	-	14,974	-	-	43,952	350	61,378	15,334	46,044
New Hampshire	-	-	-	-	-	-	-	27,564	51	27,615	9,612	18,003
Vermont	15,023	13,526	17,474	-	6,447	2,579	7,436	21,550	8,650	92,685	3,233	89,452
Massachusetts	4,905	-	21,753	-	-	-	-	287,769	375	314,802	115,821	198,981
Rhode Island	-	-	-	-	-	-	-	62,987	-	62,987	18,787	44,200
Connecticut	25	192	1,425	-	1,026	158	-	102,103	526	105,455	5,189	100,266
New England	20,976	13,718	41,731	-	22,447	2,737	7,436	545,925	9,952	664,922	167,976	496,946
New York	321,842	315,352	413,710	157,750	93,500	45,167	124,757	888,395	45,800	2,406,273	231,342	2,174,931
New Jersey	789	-	10,528	-	639	111	-	164,684	1,359	178,110	9,056	169,054
Pennsylvania	197,550	8,639	96,086	116,694	51,444	8,417	-	995,117	11,282	1,485,229	57,202	1,428,027
Middle Atlantic	520,181	323,991	520,324	274,444	145,583	53,695	124,757	2,048,196	58,441	4,069,612	297,600	3,772,012
Ohio	1,244,527	213,737	129,605	700,974	34,868	10,105	89,350	463,625	83,600	2,970,391	76,844	2,893,547
Indiana	623,704	362,684	1,079	267,605	48,000	1,789	28,625	241,976	15,260	1,590,722	60,798	1,529,924
Illinois	1,125,385	574,556	200,743	418,222	8,528	14,861	5,653	514,831	19,347	2,882,126	129,886	2,752,240
Michigan	881,472	233,667	11,600	413,917	31,694	82,361	82,737	362,500	29,974	2,129,922	53,365	2,076,557
Wisconsin	2,046,177	4,025,629	1,174,909	1,944,722	133,111	102,583	559,658	258,290	100,099	10,345,178	362,345	9,982,833
East North Central	5,921,265	5,410,273	1,517,936	3,745,440	256,201	211,699	766,023	1,841,222	248,280	19,918,339	683,238	19,235,101
Minnesota	4,773,760	523,528	23,143	75,167	1,722	28,361	265,289	215,948	16,479	5,923,397	51,273	5,872,124
Iowa	3,946,078	88,278	5,029	93,000	306	472	-	177,662	6,133	4,316,958	15,483	4,301,475
Missouri	1,156,437	527,179	410	426,718	40,641	1,949	3,775	217,682	9,925	2,384,716	47,162	2,337,554
North Dakota	965,973	-	-	-	-	-	-	34,240	250	1,000,463	13,664	986,799
South Dakota	664,553	11,556	-	-	-	-	-	41,297	694	718,100	9,080	709,020
Nebraska	1,671,309	8,639	28	-	389	556	-	100,632	4,427	1,785,980	30,368	1,755,612
Kansas	972,883	87,595	-	140,162	3,595	189	-	91,385	6,256	1,302,065	10,932	1,291,133
West North Central	14,150,993	1,246,775	28,610	735,047	46,653	31,527	269,064	878,846	44,164	17,431,679	177,962	17,253,717
District of Columbia	-	26	132	-	-	-	-	95,325	425	95,908	38,010	57,898
Delaware	-	-	-	-	-	-	-	27,436	-	27,436	10,923	16,513
Maryland	62,771	-	-	73,658	32,353	-	-	123,625	4,250	296,857	49,050	247,807
Virginia	142,649	3,128	-	118,128	6,410	1,462	-	142,366	642	414,785	42,859	371,926
West Virginia	29,886	769	-	64,744	-	-	-	83,072	3,405	181,876	4,120	177,756
North Carolina	29,886	15,897	-	67,250	-	-	-	181,954	795	295,782	90,343	205,439
South Carolina	3,821	-	-	16,762	-	-	-	49,629	-	53,450	14,114	35,515
Georgia	9,823	75	-	-	-	190	-	78,250	70	88,408	15,182	73,226
Florida	23	-	-	-	-	-	-	117,791	952	118,766	46,437	72,329
South Atlantic	278,859	19,895	132	340,542	38,963	1,652	-	878,865	10,539	1,569,447	311,038	1,258,409
Kentucky	429,269	210,175	-	367,650	25	-	-	56,582	3,906	1,067,607	17,569	1,050,038
Tennessee	236,444	337,650	25,775	272,400	825	-	-	159,659	955	1,033,708	48,676	985,032
Alabama	2,681	27,425	-	-	-	-	-	79,823	159	110,088	24,913	85,175
Mississippi	43,961	101,225	400	89,175	50	29,150	-	39,155	-	303,116	8,646	294,470
Arkansas	119,178	68,962	-	64,000	-	-	-	31,340	405	283,894	5,419	278,475
Louisiana	7,378	275	2,525	-	-	-	-	78,387	2,477	91,042	4,017	87,025
Oklahoma	589,159	117,615	-	5,205	1,872	2,179	3,600	81,435	4,071	805,136	24,304	780,832
Texas	227,344	63,275	19,075	57,925	-	1,100	-	288,159	4,581	661,459	33,981	627,478
South Central	1,655,414	926,602	47,775	856,355	2,772	32,429	3,600	814,549	16,554	4,356,050	167,525	4,188,525
Montana	177,234	27,811	-	-	-	-	-	35,872	1,179	242,096	7,374	234,722
Idaho	496,247	186,373	31,520	165,520	-	-	6,538	29,924	1,065	917,187	25,891	891,296
Wyoming	42,481	4,135	10,556	-	-	-	-	10,052	162	67,386	1,615	65,771
Colorado	297,688	7,472	5,000	40,139	-	-	556	73,815	14,720	439,390	4,523	434,867
New Mexico	23,475	1,590	-	-	1,500	-	-	15,150	195	41,910	853	41,057
Arizona	13,128	133	6,133	13,787	-	-	-	28,077	2,213	63,471	1,893	61,578
Utah	116,727	69,297	40,270	153,270	-	-	2,949	40,605	3,595	426,713	20,074	406,639
Nevada	19,789	110	-	-	-	-	-	12,395	189	32,483	584	31,899
Mountain	1,186,769	296,921	93,479	372,716	1,500	-	10,043	245,890	23,318	2,230,636	62,767	2,167,869
Washington	376,152	40,468	22,182	191,558	9,636	3,013	585	103,049	17,833	764,476	9,449	755,027
Oregon	317,417	236,975	5,000	34,750	-	30,050	8,116	73,861	3,045	709,214	23,506	685,708
California	545,949	46,861	52,861	720,028	15,500	26,639	103,632	601,052	126,921	2,239,443	90,355	2,149,088
Pacific	1,239,518	324,304	80,043	946,336	25,136	59,702	112,333	777,962	147,799	3,713,133	123,310	3,589,823
UNITED STATES	24,973,975	8,562,479	2,330,030	7,270,880	539,255	393,441	1,293,256	8,031,455	559,047	53,953,818	1,991,416	51,962,402

1/ Total whole milk equivalent of factory dairy products calculated from production in each State as reported by the Bureau of Agricultural Economics, and pounds of fat received at plants per pound of product made and test of milk used for each purpose as determined from a survey of 1,900 plants in 46 States for the year July 1930 to June, 1931. No adjustment has been made for shipments of milk and cream between States differing in the test of milk produced. Because of interstate shipments the milk equivalent of products manufactured in each State does not necessarily show utilization of milk produced in the State.

Duplication is removed on the basis of information from the survey referred to above: 201 plants making American cheese reported the sale of 0.0281 pounds of butterfat per pound of cheese made. Butterfat from whey cream is used primarily as a source of fat in making butter. In order to avoid duplication in calculating the milk equivalent of all products made, deductions were made for the amount of fat recovered in whey cream and used for making butter, and for the amount of fat from butter and concentrated milk used in making ice cream.

2/ Milk equivalent of this product included with "Other Milk Products" in years prior to 1945.

3/ Includes milk equivalent of sherbet and ice milk which had been included under "Other Milk Products" in years prior to 1945.

4/ Includes milk equivalent of dry cream, malted milk powder, part-skim dry milk, dry or concentrated ice cream mix, and creamed cottage cheese. The latter product was not included until 1946.

TABLE 25-SKIM MILK EQUIVALENT OF CERTAIN SKIMMED MILK AND BUTTERMILK PRODUCTS, UNITED STATES, 1948 1/

State and Division	Full skim American Cheddar cheese	Cottage cheese curd 2/	Sweetened condensed skim milk		Unsweetened condensed skim milk 3/ case & bulk	Concentrated skim milk (for animal feed)	Condensed or evaporated buttermilk	Dry or powdered		Dry casein 5/	Total
			Case	Bulk				Butter- milk	Nonfat milk solids 4/		
	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.	1000 lb.
Maine	-	594	-	3,456	7,056	-	-	-	616	571	12,293
New Hampshire	-	212	-	-	-	-	-	-	-	-	212
Vermont	4,320	51,669	-	18,927	21,228	-	-	33	83,908	14,958	195,043
Massachusetts	-	888	-	-	-	-	-	-	3,245	-	4,133
Connecticut	-	1,225	-	-	174	-	-	-	-	-	1,399
New England	4,320	54,588	-	22,383	28,458	-	-	33	87,769	15,529	213,080
New York	2,128	286,100	-	87,282	216,819	1,335	3,774	1,606	555,016	111,598	1,265,658
New Jersey	-	988	-	2,742	1,707	-	-	-	-	-	5,437
Pennsylvania	-	81,550	-	73,605	68,175	10,503	6,372	-	93,313	-	333,518
Middle Atlantic	2,128	368,638	-	163,629	286,701	11,838	10,146	1,606	648,329	111,598	1,604,613
Ohio	9,792	135,356	-	79,563	67,539	-	57,972	13,541	326,260	-	690,023
Indiana	-	46,706	-	78,039	105,279	11,634	6,426	7,678	297,946	-	553,708
Illinois	2,592	85,038	1,080	64,773	67,170	-	117,558	6,677	83,270	9,675	437,833
Michigan	-	114,688	-	54,711	84,531	3,522	10,740	28,083	389,224	-	685,499
Wisconsin	-	107,463	-	92,841	265,236	19,281	-	23,672	2,253,526	66,473	2,828,492
East North Central	12,384	489,251	1,080	369,927	589,755	34,437	192,696	79,651	3,350,226	76,148	5,195,555
Minnesota	-	37,950	-	27,162	52,824	9	12,699	216,073	1,819,741	61,190	2,227,648
Iowa	-	28,662	-	2,184	36,090	15,498	68,187	65,780	110,088	12,281	338,770
Missouri	6,688	45,556	-	13,641	69,366	4,413	50,223	13,772	336,523	36	540,218
North Dakota	-	944	-	831	36	-	5,862	28,974	2,728	-	39,375
South Dakota	1,968	1,594	-	279	-	-	10,626	3,454	-	-	17,921
Nebraska	-	16,225	-	3,003	1,797	-	46,437	10,021	38,104	-	115,587
Kansas	-	38,131	-	31,251	93,009	-	70,827	5,643	78,914	-	317,775
West North Central	8,656	169,062	-	78,351	253,122	19,920	264,861	343,717	2,386,098	73,507	3,597,294
District of Columbia	-	1,756	-	-	-	-	-	-	-	-	1,756
Delaware	-	25	-	-	-	-	-	-	-	-	25
Maryland	-	15,294	-	8,901	3,165	-	729	-	47,366	-	75,455
Virginia	-	6,969	-	25,260	67,275	-	-	-	29,887	-	129,391
West Virginia	-	14,206	-	156	822	-	-	1,628	6,237	-	23,049
North Carolina	-	5,725	-	-	384	-	-	-	-	-	6,109
Georgia	-	531	-	21	852	-	-	-	-	-	1,404
Florida	-	3,294	-	-	42	-	-	-	-	-	3,336
South Atlantic	-	47,800	-	34,338	72,540	-	729	1,628	83,490	-	240,525
Kentucky	16	24,725	-	2,772	5,115	-	27,105	2,057	24,838	-	86,628
Tennessee	-	7,694	-	564	49,833	-	2,373	-	13,860	-	74,324
Alabama	-	1,112	-	-	6,366	-	-	-	66	-	7,544
Mississippi	-	56	-	924	17,151	-	-	957	21,120	-	40,208
Arkansas	-	3,706	-	516	1,689	-	-	-	9,647	-	15,558
Louisiana	-	4,650	-	1,305	-	-	-	-	-	-	5,955
Oklahoma	-	14,038	-	5,196	13,560	-	9,252	13,156	26,235	6,962	88,399
Texas	-	12,275	-	6,174	28,998	-	765	1,463	4,576	-	54,251
South Central	16	68,256	-	17,451	122,712	-	39,495	17,633	100,342	6,962	372,867
Montana	-	4,369	-	-	-	-	-	-	-	-	4,369
Idaho	-	3,731	-	-	2,172	-	-	869	339,548	10,389	356,709
Wyoming	-	1,444	-	-	-	-	-	-	11,154	-	12,598
Colorado	560	15,200	-	2,703	267	-	3,066	4,708	1,243	-	27,747
New Mexico	-	756	-	-	96	-	1,158	-	-	-	2,010
Arizona	-	7,006	-	-	5,238	-	-	506	517	1,856	15,123
Utah	3,232	11,788	-	-	2,703	-	-	297	49,874	1,285	69,179
Nevada	-	662	-	-	-	-	-	77	4,169	-	4,908
Mountain	3,792	44,956	-	2,703	10,476	-	4,224	6,457	406,505	13,530	492,643
Washington	-	57,619	-	8,091	5,244	1,704	711	-	102,531	34,772	210,672
Oregon	-	22,600	6	3,447	45	-	-	3,608	60,863	-	90,569
California	-	274,769	-	23,976	168,099	-	-	2,475	415,294	181,035	1,065,648
Pacific	-	354,988	6	35,514	173,388	1,704	711	6,083	578,688	215,807	1,366,889
UNITED STATES	31,296	1,597,539	1,086	724,296	1,537,152	67,899	512,862	456,808	7,641,447	513,081	13,083,466

1/ Skim milk equivalents of the skimmed milk and buttermilk products as reported by dairy manufacturing plants. Totals shown exclude skim milk and buttermilk sold in fluid form or used for some minor products.

Products included and conversion factors for converting to a skim milk equivalent basis are: American full skim cheese 16.0; cottage cheese, 6.25; dried or powdered buttermilk and nonfat dry milk solids, 11; dry casein, 35.7; and 3 each for case and bulk sweetened condensed skim milk, bulk unsweetened condensed skim milk (plain condensed), concentrated skim milk (for animal feed), and condensed or evaporated buttermilk. Because of the fact that some of the skimmed milk and buttermilk products are not standardized, and because of the variations in percentage of solids not fat in skim milk and buttermilk, these conversion factors are only approximate.

2/ Not strictly comparable with previous years as the cottage cheese for previous years included some duplication in the form of creamed cottage cheese.

3/ Plain condensed.

4/ Includes skim milk for animal feed.

5/ Skimmed milk or buttermilk.

2840(2)

